INDEX TO AUTHORS

A

ABRAMSON, SYDNEY, MILLER, RICHARD G., and PHILLIPS, ROBERT A. The identification in adult bone marrow of pluripotent and restricted stem cells of the myeloid and lymphoid systems 1567

ADEN, DAVID P. See KNOWLES, SOLTER, TRINCHIERI, MALONEY, FORD, and ADEN 314

ADLER, BRIAN. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353

AHMED, AFTAB, SCHER, IRWIN, SHARROW, SUSAN O., SMITH, ALLAN H., PAUL, WILLIAM E., SACHS, DAVID H., and SELL, KENNETH W. B-lymphocyte heterogeneity: development and characterization of an alloantiserum which distinguishes B-lymphocyte differentiation alloantigens 101

AISENBERG, ALAN C. See LONG, ZAMECNIK, AISENBERG, and ATKINS 1484

ALTHAGE, ALANA. See ZINKERNAGEL and ALTHAGE 644

–. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353

ALVARES, ALVITO P. See COHN, ALVARES, and KAPPAS 1607

ANDERSON, CLARK L. See HEUSSER, ANDERSON, and GREY 1316

ANDERSSON, JAN, COUTINHO, ANTONIO, and MELCHERS, FRITZ. Frequencies of mitogen-reactive B cells in the mouse. I. Distribution in different lymphoid organs from different inbred strains of mice at different ages 1511

–, –, and –. II. Frequencies of B cells producing antibodies which lyse sheep or horse erythrocytes, and trinitrophenylated or nitroiodophenylated sheep erythrocytes 1520

ANDERSSON, LEIF C. See PECK, ANDERSSON, and WIGZELL 802

ARGÜELLO, CARLOS. See TRISSL, MARTÍNEZ-PALOMO, ARGÜELLO, DE LA TORRE, and DE LA HOZ 652

ARMSTRONG, MARTINE, Y. K., RUDDLE, NANCY H., and RICHARDS, FRANK F. Expression of endogenous murine leukemia viruses during the course of a protracted immunological disorder 1060

ASOFSKY, RICHARD. See MCMASTER, OWENS, DVORAK, WEICHBROD, and ASOFSKY 1101

ATKINS, ELISHA. See CHAO, FRANCIS, and ATKINS 1288

ATKINS, LEONARD. See LONG, ZAMECNIK, AISENBERG, and ATKINS 1484

B

BABA, MITSUO. See MORIKAWA, BABA, HARADA, and MITSUOKA 237

BAINTON, DOROTHY F. See BODEL, NICHOLS, and BAINTON 264

BARCINSKI, MARCELLO A., and ROSENTHAL, ALAN S. Immune response gene control of determinant selection. I. Intramolecular mapping of the immunogenic sites on insulin recognized by guinea pig T and B cells 726

BASCH, ROSS S., and KADISH, JULIAN L. Hematopoietic thymocyte precursors. II. Properties of the precursors 405

BASEMAN, JOEL B. See HU, COLLIER, and BASEMAN 1328

BAUM, LINDA L. See PILARSKI, BRETSCHER, and BAUM 1237

BEACHEY, EDWIN H., STOLLERMAN, GENE H., CHIANG, EDNA Y., CHIANG, THOMAS M., SEYER, JEROME M., and KANG, ANDREW H. Purification and properties of M protein extracted from group A streptococci with pepsin: covalent structure of the amino terminal region of type 24 M antigen 1469

BENACERRAF, BARUJ. See BILLINGS, BURAKOFF, DORF, and BENACERRAF 1387

–. See KAPP, PIERCE, and BENACERRAF 828

–. See THÈZE, KAPP, and BENACERRAF 839

–. See WALTENBAUGH, THÈZE, and BENACERRAF 1278

BENNETT, DOROTHEA. See BERNARD, RIPOCHE, and BENNETT 58

BENNINK, JACK. See EFFROS, DOHERTY, GERHARD, and BENNINK 557

BERNARD, C. See MILLER, VADAS, WHITELAW, GAMBLE, and BERNARD 1623

BERNARD, OLIVIER, RIPOCHE, MARIE-ANNE, and BENNETT, DOROTHEA. Distribution of maternal immunoglobulins in the mouse uterus and embryo in the days after implantation 58

BERZOFSKY, JAY A., SCHECHTER, ALAN N., SHEARER, GENE M., and SACHS, DAVID H. Genetic control of the immune response to staphylococcal nuclease. III. Time-course and correlation between the response to native nuclease and the response to its polypeptide fragments 111

–, –, –, and –. IV. *H-2*-linked control of the relative proportions of antibodies produced to different determinants of native nuclease 123

BEVERLEY, PETER C. L. See FELDMANN, BEVERLEY, WOODY, and MCKENZIE 793

BILHEIMER, DAVID W. See HO, FAUST, BILHEIMER, BROWN, and GOLDSTEIN 1531

BILLINGS, PAUL, BURAKOFF, STEVEN, DORF, MARTIN E., and BENACERRAF, BARUJ. Cytotoxic T lymphocytes specific for *I* region determinants do not require interactions with *H-2K* or *D* gene products 1387

BLANDEN, ROBERT V. See DUNLOP and BLANDEN 1131

—. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353

BLOOM, BARRY R. See MUSCHEL, ROSEN, and BLOOM 175

—. See ROMANO, NOWAKOWSKI, BLOOM, and THORBECKE 666

BODEL, PHYLLIS T., and MILLER, HEATHER. Differences in pyrogen production by mononuclear phagocytes and by fibroblasts or HeLa cells 607

—, NICHOLS, BARBARA A., and BAINTON, DOROTHY F. Appearance of peroxidase reactivity within the rough endoplasmic reticulum of blood monocytes after surface adherence 264

BONAVIDA, BENJAMIN. Concanavalin A-mediated activation of antigen-primed lymphocytes into secondary cytotoxic lymphocytes 293

BORNKAMM, GEORG W. See MILLER, SHOPE, COOPE, WATERS, PAGANO, BORNKAMM, and HENLE 948

BOSMA, GAYLE C. See BOSMA and BOSMA 743

BOSMA, MELVIN J., and BOSMA, GAYLE C. Prevention of IgG_{2a} production as a result of allotype-specific interaction between T and B cells 743

BREARD, JACQUELINE M. See EVANS, BREARD, LAZARUS, SCHLOSSMAN, and CHESS 221

BRETSCHER, PETER A. See PILARSKI, BRETSCHER, and BAUM 1237

BROWN, MICHAEL S. See HO, FAUST, BILHEIMER, BROWN, and GOLDSTEIN 1531

BURAKOFF, STEVEN. See BILLINGS, BURAKOFF, DORF, and BENACERRAF 1387

BUTTERWORTH, A. E., DAVID, J. R., FRANKS, D., MAHMOUD, ADEL, A. F., DAVID, P. H., STURROCK, R. F., and HOUBA, V. Antibody-dependent eosinophil-mediated damage to ^{51}Cr-labeled schistosomula of *Schistosoma mansoni*: damage by purified eosinophils 136

C

CAHILL, R. N. P., POSKITT, D. C., FROST, H., and TRNKA, Z. Two distinct pools of recirculating T lymphocytes: migratory characteristics of nodal and intestinal T lymphocytes 420

CAMBIER, J. C., VITETTA, ELLEN S., UHR, J. W., and KETTMAN, J. R. B-cell tolerance. II. Trinitrophenyl human gamma globulin-induced tolerance in adult and neonatal murine B cells responsive to thymus-dependent and independent forms of the same hapten 778

CANTOR, H. See GLIMCHER, SHEN, and CANTOR 1

—. See HUBER, GERSHON, and CANTOR 10

CHAO, PAULINE, FRANCIS, LORRAINE, and ATKINS, ELISHA. The release of an endogenous pyrogen from guinea pig leukocytes in vitro. A new model for investigating the role of lymphocytes in fevers induced by antigen in hosts with delayed hypersensitivity 1288

CHESS, LEONARD. See EVANS, BREARD, LAZARUS, SCHLOSSMAN, and CHESS 221

CHIANG, CHIN LEE. See KLEIN, CHIANG, and HAUPTFELD 450

CHIANG, EDNA Y. See BEACHEY, STOLLERMAN, CHIANG, CHIANG, SEYER, and KANG 1469

CHIANG, THOMAS M. See BEACHEY, STOLLERMAN, CHIANG, CHIANG, SEYER, and KANG 1469

CLAMAN, HENRY N. See MILLER, SY, and CLAMAN 1071

CLARKE, ADRIENNE. See MCKENZIE, CLARKE, and PARISH 1039

CLEARY, PAUL P., WANNAMAKER, LEWIS W., FISHER, MARGE, and LAIBLE, NANCY. Studies of the receptor for phage A25 in group A streptococci: the role of peptidoglycan in reversible adsorption 578

COHN, JONATHAN A., ALVARES, ALVITO P., and KAPPAS, ATTALLAH. On the occurrence of cytochrome P-450 and aryl hydrocarbon hydroxylase activity in rat brain 1607

—. See MAINES and COHN 1054

COLLIER, ALBERT M. See HU, COLLIER, and BASEMAN 1328

COOPE, DONALD. See MILLER, SHOPE, COOPE, WATERS, PAGANO, BORNKAMM, and HENLE 948

COUTINHO, ANTONIO. See ANDERSSON, COUTINHO, and MELCHERS 1511, 1520

CULLEN, SUSAN E. See HANSEN, CULLEN, MELVOLD, KOHN, FLAHERTY, and SACHS 1550

—. See HANSEN, CULLEN, and SACHS 438

D

DAVID, J. R. See BUTTERWORTH, DAVID, FRANKS, MAHMOUD, DAVID, STURROCK, and HOUBA 136

DAVID, P. H. See BUTTERWORTH, DAVID, FRANKS, MAHMOUD, DAVID, STURROCK, and HOUBA 136

DAVIDSON, WENDY F. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353

DAYER, JEAN-MICHEL, ROBINSON, DWIGHT R., and KRANE, STEPHEN M. Prostaglandin production by rheumatoid synovial cells. Stimulation by a factor from human mononuclear cells. 1399

DE LA HOZ, RAFAEL. See TRISSL, MARTIÑEZ-PALOMO, ARGÜELLO, de la Torre, and DE LA HOZ 652

DE LA TORRE, MARGARITA. See TRISSL, MARTÍNEZ-PALOMO, ARGÜELLO, DE LA TORRE, and DE LA HOZ 652
DEXTER, T. M., MOORE, M. A. S., and SHERIDAN, A. P. C. Maintenance of hemopoietic stem cells and production of differentiated progeny in allogeneic and semi-allogeneic bone marrow chimeras in vitro 1612
DIETZ, MICHAEL, FOUCHEY, SUSAN P., LONGLEY, CLIFFORD, RICH, MARVIN A., and FURMANSKI, PHILIP. Spontaneous regression of Friend virus-induced erythroleukemia. I. The role of the helper murine leukemia virus component 594
DOHERTY, PETER C. See EFFROS, DOHERTY, GERHARD, and BENNINK 557
—. See WIKTOR, DOHERTY, and KOPROWSKI 1617
DORF, MARTIN E. See BILLINGS, BURAKOFF, DORF, and BENACERRAF 1387
DORFMAN, RONALD F. See LEVY, WARNKE, DORFMAN, and HAIMOVICH 1014
DORSCH, SUSAN and ROSER, BRUCE. Recirculating, suppressor T cells in transplantation tolerance 1144
DUNLOP, MALCOLM B. C., and BLANDEN, ROBERT V. Mechanisms of suppression of cytotoxic T-cell responses in murine lymphocytic choriomeningitis virus infection 1131
—. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353
DVORAK, HAROLD F. See MCMASTER, OWENS, DVORAK, WEICHBROD, and ASOFSKY 1101

E

EARP, H. SHELTON, UTSINGER, PETER D., YOUNT, WILLIAM J., LOGUE, MARSHALL, and STEINER, ALTON L. Lymphocyte surface modulation and cyclic nucleotides. I. Topographic correlation of cyclic adenosine 3′:5′-monophosphate and immunoglobulin immunofluorescence during lymphocyte capping 1087
EDELMAN, GERALD M. See SCHRADER and EDELMAN 523
—. See SELA and EDELMAN 443
EFFROS, RITA B., DOHERTY, PETER C., GERHARD, WALTER, and BENNINK, JACK. Generation of both cross-reactive and virus-specific T-cell populations after immunization with serologically distinct influenza A viruses 557
EHLENBERGER, ALFRED G., and NUSSENZWEIG, VICTOR. The role of membrane receptors for C3b and C3d in phagocytosis 357
EILON, GABRIEL. See RAISZ, SIMMONS, GWOREK, and EILON 857
EKSTEDT, RICHARD. See NESPOLI, MÖLLER, WATERFIELD, and EKSTEDT 631
ELLIOTT, S. D., MCCARTY, MACLYN, and LANCEFIELD, REBECCA C. Teichoic acids of Group D streptococci with special reference to strains from pig meningitis (*Streptococcus suis*) 490
ESQUIVEL, PATRICIO S., ROSE, NOEL R., and KONG, YI-CHI M. Induction of autoimmunity in good and poor responder mice with mouse thyroglobulin and lipopolysaccharide 1250
ESTENSEN, RICHARD. See TOURAINE, HADDEN, TOURAINE, HADDEN, ESTENSEN, and GOOD 460
EVANS, ROBERT L., BREARD, JACQUELINE M., LAZARUS, HERBERT, SCHLOSSMAN, STUART F., and CHESS, LEONARD. Detection, isolation, and functional characterization of two human T-cell subclasses bearing unique differentiation antigens 221

F

FATHMAN, C. G., PISETSKY, D. S., and SACHS, DAVID H. Genetic control of the immune response to nuclease. V. Genetic linkage and strain distribution of anti-nuclease idiotypes 569
FAUST, JERRY R. See HO, FAUST, BILHEIMER, BROWN, and GOLDSTEIN 1531
FELDMANN, MARC, BEVERLEY, PETER C. L., WOODY, JIM, and MCKENZIE, IAN F. C. T-T interactions in the induction of suppressor and helper T cells: analysis of membrane phenotype of precursor and amplifier cells 793
FISHER, MARGE. See CLEARY, WANNAMAKER, FISHER, and LAIBLE 578
FLAD, HANS-D. See Opitz, Opitz, Lemke, Hewlett, Schreml, and FLAD 1029
FLAHERTY, LORRAINE. See HANSEN, CULLEN, MELVOLD, KOHN, FLAHERTY, and SACHS 1550
—. See MICHAELSON, FLAHERTY, VITETTA, and POULIK 1066
FORD, SHARON R. See KNOWLES, SOLTER, TRINCHIERI, MALONEY, FORD, and ADEN 314
FOUCHEY, SUSAN P. See DIETZ, FOUCHEY, LONGLEY, RICH, and FURMANSKI 594
FOURNIÉ, GILBERT J. See IZUI, LAMBERT, FOURNIÉ, TÜRLER, and MIESCHER 1115
FRANCIS, LORRAINE. See CHAO, FRANCIS, and ATKINS 1288
FRANKS, D. See BUTTERWORTH, DAVID, FRANKS, MAHMOUD, DAVID, STURROCK, and HOUBA 136
FRELINGER, JEFFREY A. See LUKASEWYCZ and FRELINGER 1077
FROST, H. See CAHILL, POSKITT, FROST, and TRNKA 420
FUJIWARA, KEIGI. See SCHREINER, FUJIWARA, POLLARD, and UNANUE 1393
FURMANSKI, PHILIP. See DIETZ, FOUCHEY, LONGLEY, RICH, and FURMANSKI 594
FUSON, E. W. See LAMON, SHAW, GOODSON, LIDIN, WALIA, and FUSON 302

G

GAMBLE, JENNIFER. See MILLER, VADAS, WHITELAW, GAMBLE, and BERNARD 1623
GEARHART, PATRICIA J., SIGAL, NOLAN H., and KLINMAN, NORMAN R. The monoclonal antiphosphorylcholine antibody response in sev-

eral murine strains: genetic implications of a diverse repertoire 876
GECZY, ANDREW F. Histocompatibility antigens and genetic control of the immune response in guinea pigs. IV. Specific inhibition of lymphocyte proliferation by auto-anti-idiotypic antibodies 1093
GEHA, RAIF S., MUDAWWAR, FUAD, and SCHNEEBERGER, EVELINE. The specificity of T-cell helper factor in man 1436
GEHRON, PAMELA. See ORKIN, GEHRON, MCGOODWIN, MARTIN, VALENTINE, and SWARM 204
GERHARD, WALTER. See EFFROS, DOHERTY, GERHARD, and BENNINK 557
GERSHON, R. K. See HUBER, GERSHON, and CANTOR 10
GLIMCHER, L., SHEN, F. W., and CANTOR, H. Identification of a cell-surface antigen selectively expressed on the natural killer cell 1
GOLDSTEIN, JOSEPH L. See HO, FAUST, BILHEIMER, BROWN, and GOLDSTEIN 1531
GOOD, ROBERT A. See TOURAINE, HADDEN, TOURAINE, HADDEN, ESTENSEN, and GOOD 460
GOODMAN, MICHAEL G., and WEIGLE, WILLIAM O. Nonspecific activation of murine lymphocytes. I. Proliferation and polyclonal activation induced by 2-mercaptoethanol and α-thioglycerol 473
GOODSON, S. See LAMON, SHAW, GOODSON, LIDIN, WALIA, and FUSON 302
GORDON, DAVID S. See MCDOUGAL and GORDON 676, 693
GRAY, ALFRED. See JU, GRAY, and NISONOFF 540
GREY, HOWARD M. See HEUSER, ANDERSON, and GREY 1316
GROVE, DAVID I., MAHMOUD, ADEL A. F., and WARREN, KENNETH S. Eosinophils and resistance to *Trichinella spiralis* 755
GWOREK, SUSAN C. See RAISZ, SIMMONS, GWOREK, and EILON 857

H

HADDEN, ELBA M. See TOURAINE, HADDEN, TOURAINE, HADDEN, ESTENSEN, and GOOD 460
HADDEN, JOHN W. See TOURAINE, HADDEN, TOURAINE, HADDEN, ESTENSEN, and GOOD 460
HAIMOVICH, JOSEPH. See LEVY, WÄRNKE, DORFMAN, and HAIMOVICH 1014
HALLER, OTTO, KIESSLING, ROLF, ÖRN, ANDERS, and WIGZELL, HANS. Generation of natural killer cells: an autonomous function of the bone marrow 1411
HALLIDAY, MARK. See SZEWCZUK, HALLIDAY, SOYBEL, TURNER, SISKIND, and WEKSLER 968
HAMMARSTRÖM, LENNART. See PRIMI, HAMMARSTRÖM, SMITH, and MÖLLER 21
HANSEN, TED H., CULLEN, SUSAN E., MELVOLD, ROGER, KOHN, HENRY, FLAHERTY, LORRAINE, and SACHS, DAVID H. Mutation in a new *H-2*-associated histocompatibility gene closely linked to *H-2D* 1550
–, CULLEN, SUSAN E., and SACHS, DAVID H. Immunochemical evidence for an additional *H-2* region closely linked to *H-2D* 438
HARADA, TAKAYUKI, See MORIKAWA, BABA, HARADA, and MITSUOKA 237
HAUPTFELD, VĚRA. See KLEIN, CHIANG, and HAUPTFELD 450
HAY, JOHN B., and HOBBS, BARRY B. The flow of blood to lymph nodes and its relation to lymphocyte traffic and the immune response 31
HENLE, WERNER. See MILLER, SHOPE, COOPE, WATERS, PAGANO, BORNKAMM, and HENLE 948
HERZENBERG, LEONARD A. See STOUT, MURPHY, MCDEVITT, and HERZENBERG 187
HEUSSER, CHRISTOPH H., ANDERSON, CLARK L., and GREY, HOWARD M. Receptors for IgG: subclass specificity of receptors on different mouse cell types and the definition of two distinct receptors on a macrophage cell line 1316
HEWLETT, GUY. See OPITZ, OPITZ, LEMKE, HEWLETT, SCHREML, and FLAD 1029
HO, Y. K., FAUST, JERRY R., BILHEIMER, DAVID W., BROWN, MICHAEL S., and GOLDSTEIN, JOSEPH L. Regulation of cholesterol synthesis by low density lipoprotein in isolated human lymphocytes. Comparison of cells from normal subjects and patients with homozygous familial hypercholesterolemia and abetalipoproteinemia 1531
HOBBS, BARRY B. See HAY and HOBBS 31
HOFFMAN, THOMAS. See MESTECKY, WINCHESTER, HOFFMAN, and KUNKEL 760
HOFFMANN, MICHAEL K. See PICKEL and HOFFMANN 1169
HOOKS, JOHN J. See IDA, HOOKS, SIRAGANIAN, and NOTKINS 892
HORTON, CLARE L. See SCHWARTZ, HORTON, and PAUL 327
HOUBA, V. See BUTTERWORTH, DAVID, FRANKS, MAHMOUD, DAVID, STURROCK, and HOUBA 136
HOVI, TAPANI, MOSHER, DEANE, and VAHERI, ANTTI. Cultured human monocytes synthesize and secrete α_2-macroglobulin 1580
HU, PING C., COLLIER, ALBERT M., and BASEMAN, JOEL B. Surface parasitism by *Mycoplasma pneumoniae* of respiratory epithelium 1328
HUBER, B., GERSHON, R. K., and CANTOR, H. Identification of a B-cell surface structure involved in antigen-dependent triggering: absence of this structure on B cells from CBA/N mutant mice 10
HÜNIG, TH., SCHIMPL, A., and WECKER, E.

Mechanism of T-cell help in the immune response to soluble protein antigens. I. Evidence for in situ generation and action of T-cell-replacing factor during the anamnestic response to dinitrophenyl keyhole limpet hemocyanin in vitro 1216

HÜNIG, TH., SCHIMPL, A., and WECKER, E. II. Reconstitution of primary and secondary in vitro immune responses to dinitrophenyl-carrier conjugates by T-cell-replacing factor 1228

I

IDA, SHIROH, HOOKS, JOHN J., STRAGANIAN, REUBEN P., and NOTKINS, ABNER LOUIS. Enhancement of IgE-mediated histamine release from human basophils by viruses: role of interferon 892

INKELES, BARTON, INNES, JUDITH B., KUNTZ, MARY M., KADISH, ANNA S., and WEKSLER, MARC E. Immunological studies of aging. III. Cytokinetic basis for the impaired response of lymphocytes from aged humans to plant lectins 1176

INMAN, JOHN K. See MERCHANT and INMAN 372

INNES, JUDITH B. See INKELES, INNES, KUNTZ, KADISH, and Weksler 1176

IZUI, SHOZO, LAMBERT, PAUL-HENRI, FOURNIÉ, GILBERT J., TÜRLER, HANS, and MIESCHER, PETER A. Features of systemic lupus erythematosus in mice injected with bacterial lipopolysaccharides. Identification of circulating DNA and renal localization of DNA-anti-DNA complexes 1115

J

JAMES, JOHN F., and SWANSON, JOEN. The capsule of the gonococcus 1082

JU, SHYR-TE, GRAY, ALFRED, and NISONOFF, ALFRED. Frequency of occurrence of idiotypes associated with anti-*p*-azophenyl-arsonate antibodies arising in mice immunologically suppressed with respect to a cross-reactive idiotype 540

—. See OWEN, JU, and NISONOFF 1559

K

KADISH, ANNA S. See INKELES, INNES, KUNTZ, KADISH, and WEKSLER 1176

KADISH, JULIAN L. See BASCH and KADISH 405

KANG, ANDREW H. See BEACHEY, STOLLERMAN, CHIANG, CHIANG, SEYER, and KANG 1469

KAPP, JUDITH A., PIERCE, CARL W., and BENACERRAF, BARUJ. Immunosuppressive factor(s) extracted from lymphoid cells of nonresponder mice prime with L-glutamic acid^{60}-L-alanine^{30}-L-tyrosine^{10} (GAT). II. Cellular source and effect on responder and nonresponder mice 828

—. See THÈZE, KAPP, and BENACERRAF 839

KAPPAS, ATTALLAH. See COHN, ALVARES, and KAPPAS 1607

KATSURA, YOSHIMOTO. See MINATO and Katsura 390

KEES, URSULA. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353

KETTMAN, JOHN R. See CAMBIER, VITETTA, UHR, and KETTMAN 778

KETTMAN, LEONARD. See YUAN, VITETTA, and KETTMAN 1421

KIESSLING, ROLF. See HALLER, KIESSLING, ÖRN, and WIGZELL 1411

KIJLSTRA, AIZE. See KNUTSON, KIJLSTRA, and VAN ES 1368

KINCADE, PAUL W. Defective colony formation by B lymphocytes from CBA/N and C3H/HeJ mice 249

KINDT, THOMAS J. See YARMUSH, SOGN, MUDGETT, and KINDT 916

KIRSTEIN, DAVID P. See NORTH and KIRSTEIN 275

KLEBANOFF, SEYMOUR J. Estrogen binding by leukocytes during phagocytosis 983

KLEIN, JAN, CHIANG, CHIN LEE, and HAUPTFELD, VĚRA. Histocompatibility antigens controlled by the *I* region of the murine *H-2* complex. II. *K/D* region compatibility is not required for *I*-region cell-mediated lymphocytotoxicity 450

—. See ZALESKI and KLEIN 1602

KLINMAN, NORMAN R. See GEARHART, SIGAL, and KLINMAN 876

—. See METCALF, SIGAL, and KLINMAN 1382

KNOWLES, BARBARA B., SOLTER, DAVOR, TRINCHIERI, GIORGIO, MALONEY, KATHERINE M., FORD, SHARON R., and ADEN, DAVID P. Complement-mediated antiserum cytotoxic reactions to human chromosome 7 coded antigen(s): immunoselection of rearranged human chromosome 7 in human-mouse somatic cell hybrids 314

KNUTSON, DAVID W., KIJLSTRA, AIZE, and VAN ES, LEENDERT A. Association and dissociation of aggregated IgG from rat peritoneal macrophages 1368

KOHN, HENRY. See HANSEN, CULLEN, MELVOLD, KOHN, FLAHERTY, and SACHS 1550

KONG, AH SWEE, and MORSE, STEPHEN I. The in vitro effects of *Bordetella pertussis* lymphocytosis-promoting factor on murine lymphocytes. I. Proliferative response 151

— and —. II. Nature of the responding cells 163

KONG, YI-CHI M. See ESQUIVEL, ROSE, and KONG 1250

KOPROWSKI, HILARY. See WIKTOR, DOHERTY, and KOPROWSKI 1617

KRANE, STEPHEN M. See DAYER, ROBINSON, and KRANE 1399

KUNKEL, HENRY G. See MESTECKY, WINCHESTER, HOFFMAN, and KUNKEL 760

KUNTZ, MARY M. See INKELES, INNES, KUNTZ, KADISH, and WEKSLER 1176

L

LAIBLE, NANCY. See CLEARY, WANNAMAKER, FISHER, and LAIBLE 578
LAMBERT PAUL-HENRI. See IZUI, LAMBERT, FOURNIÉ, TÜRLER, and MIESCHER 1115
LAMM, MICHAEL E. See MCWILLIAMS, PHILLIPS-QUAGLIATA, and LAMM 866
LAMON, E. W., SHAW, M. W., GOODSON, S., LIDIN, B., WALIA, A. S., and FUSON, E. W. Antibody-dependent cell-mediated cytotoxicity in the Moloney sarcoma virus system: differential activity of IgG and IgM with different subpopulations of lymphocytes 302
LANCEFIELD, REBECCA C. See ELLIOTT, MCCARTY, and LANCEFIELD 490
LAZARUS, HERBERT. See EVANS, BREARD, LAZARUS, SCHLOSSMAN, and CHESS 221
LEE, JOAN. See SHERMAN and LEE 76
LEMKE, HILMAR. See OPITZ, OPITZ, LEMKE, HEWLETT, SCHREML, and FLAD 1029
LEVY, RONALD, WARNKE, ROGER, DORFMAN, RONALD F., and HAIMOVICH, JOSEPH. The monoclonality of human B-cell lymphomas 1014
LIDIN, B. See LAMON, SHAW, GOODSON, LIDIN, WALIA, and FUSON 302
LINDAHL, GUNNAR. See OLSSON, LINDAHL, and RUOSLAHTI 819
LINDAHL, KIRSTEN FISCHER, and WILSON, DARCY B. Histocompatibility antigen-activated cytotoxic T lymphocytes. I. Estimates of the absolute frequency of killer cells generated in vitro 500
– and –. II. Estimates of the frequency and specificity of precursors 508
LITTMAN, BRUCE H., and RUDDY, SHAUN. Production of the second component of complement by human monocytes: stimulation by antigen-activated lymphocytes or lymphokines 1344
LOGUE, MARSHALL. See EARP, UTSINGER, YOUNT, LOGUE, and STEINER 1087
LONG, JOHN C., ZAMECNIK, PAUL C., AISENBERG, ALAN C., and ATKINS, LEONARD. Tissue culture studies in Hodgkin's disease. Morphologic, cytogenetic, cell surface, and enzymatic properties of cultures derived from splenic tumors 1484
LONGLEY, CLIFFORD. See DIETZ, FOUCHEY, LONGLEY, RICH and FURMANSKI 594
LUKASEWYCZ, OMELAN A., and FRELINGER, JEFFREY A. Immune mechanisms in leukemia. Role of the Ia antigens 1077

M

MAHMOUD, ADEL A. F. See BUTTERWORTH, DAVID, FRANKS, MAHMOUD, DAVID, STURROCK, and HOUBA 136
–. See GROVE, MAHMOUD, and WARREN 755
MAINES, MAHIN D., and COHN, JONATHAN A. Bile pigment formation by skin heme oxygenase: studies on the response of the enzyme to heme compounds and tissue injury 1054
MALONEY, KATHERINE M. See KNOWLES, SOLTER, TRINCHIERI, MALONEY, FORD, and ADEN 314
MARTIN, D. S. See RITZI, MARTIN, STOLFI, and SPIEGELMAN 999
MARTIN, GEORGE R. See ORKIN, GEHRON, MCGOODWIN, MARTIN, VALENTINE, and SWARM 204
MARTÍNEZ-PALOMO, ADOLFO. See TRISSL, MARTÍNEZ-PALOMO, ARGÜELLO, DE LA TORRE, and DE LA HOZ 652
MAURER, PAUL H. See WARNER, MCIVOR, MAURER, and MERRYMAN 766
MCCARTY, MACLYN. See ELLIOTT, MCCARTY, and LANCEFIELD 490
MCCULLAGH, PETER. Transplacental influence of the thymus 772
MCDEVITT, HUGH O. See STOUT, MURPHY, MCDEVITT, and HERZENBERG 187
MCDOUGAL, J. STEVEN, and GORDON, DAVID S. Generation of T-helper cells in vitro. I. Cellular and antigen requirements 676
– and –. II. Analysis of supernates derived from T-helper cell cultures 693
MCGOODWIN, ERMONA B. See ORKIN, GEHRON, MCGOODWIN, MARTIN, VALENTINE, and SWARM 204
MCIVOR, JUDITH L. See WARNER, MCIVOR, MAURER, and MERRYMAN 766
MCKENZIE, IAN F. C., CLARKE, ADRIENNE, and PARISH CHRISTOPHER R. Ia antigenic specificities are oligosaccharide in nature: hapten-inhibition studies 1039
–. See FELDMAN, BEVERLEY, WOODY, and MCKENZIE 793
MCMASTER, PHILIP R. B., OWENS, JAMES D., DVORAK, HAROLD F., WEICHBROD, ROBERT, and ASOFSKY, RICHARD. Hapten-specific delayed hypersensitivity to ε-2,4-dinitrophenyl-L-lysine-Ficoll in guinea pigs immunized with 2,4-dinitrophenyl-keyhole limpet hemocyanin 1101
MCWILLIAMS, MICHAEL, PHILLIPS-QUAGLIATA, JULIA M., and LAMM, MICHAEL E. Mesenteric lymph node B lymphoblasts which home to the small intestine are precomitted to IgA synthesis 866
MELCHERS, FRITZ. See ANDERSSON, COUTINHO, and MELCHERS 1511, 1520
MELVOLD, ROGER. See HANSEN, CULLEN, MELVOLD, KOHN, FLAHERTY, and SACHS 1550
MERCHANT, BRUCE, and INMAN, JOHN K. Hapten-specific hemolytic plaque assays usually fail to detect most of the diversity in the anti-hapten response 372
MERRYMAN, CARMEN F. See WARNER, MCIVOR, MAURER, and MERRYMAN 766
MESTECKY, JIRI, WINCHESTER, ROBERT J., HOFFMAN, THOMAS, and KUNKEL, HENRY G. Parallel synthesis of immunoglobulins and J

chain in pokeweed mitogen-stimulated normal cells and lymphoblastoid cell lines 760
METCALF, ELEANOR S., SIGAL, NOLAN H., and KLINMAN, NORMAN R. In vitro tolerance induction of neonatal murine B cells as a probe for the study of B-cell diversification 1382
MICHAELSON, JAMES, FLAHERTY, LORRAINE, VITETTA, ELLEN S., and POULIK, MIROSLOV D. Molecular similarities between the Qa-2 alloantigen and other gene products of the 17th chromosome of the mouse 1066
MIESCHER, PETER A. See IZUI, LAMBERT, FOURNIÉ, TÜRLER, and MIESCHER 1115
MILLER, GEORGE, SHOPE, THOMAS, COOPE, DONALD, WATERS, LEVIN, PAGANO, JOSEPH, BORNKAMM, GEORG W., and HENLE, WERNER. Lymphoma in cotton-top marmosets after inoculation with Epstein-Barr virus: tumor incidence, histologic spectrum antibody responses, demonstration of viral DNA, and characterization of viruses 948
MILLER, HEATHER. See BODEL and MILLER 607
MILLER, J. F. A. P., VADAS, M. A., WHITELAW, ALISON, GAMBLE, JENNIFER, and BERNARD, C. Histocompatibility linked immune responsiveness and restrictions imposed on sensitized lymphocytes 1623
MILLER, RICHARD G. See ABRAMSON, MILLER, and PHILLIPS 1567
MILLER, STEPHEN D., SY, MAN-SUN, and CLAMAN, HENRY N. *H-2* restriction of suppressor T-cell induction by hapten-modified lymphoid cells in tolerance to 1-fluoro-2,4-dinitrobenzene contact sensitization 1071
MINATO, NAGAHIRO, and KATSURA, YOSHIMOTO. Virus-replicating T cells in the immune response of mice. I. Virus plaque assay of the lymphocytes reactive to sheep erythrocytes 390
MITSUOKA, AKIO. See MORIKAWA, BABA, HARADA, and MITSUOKA 237
MÖLLER, GÖRAN. See NESPOLI, MÖLLER, WATERFIELD, and EKSTEDT 631
—. See PRIMI, HAMMARSTRÖM, SMITH, and MÖLLER 21
MOORE, M. A. S. See DEXTER, MOORE, and SHERIDAN 1612
MORIKAWA, SHIGERU, BABA, MITSUO, HARADA, TAKAYUKI, and MITSUOKA, AKIO. Studies on delayed hypersensitivity in mice. III. Evidence for suppressive regulatory T_1-cell population in delayed hypersensitivity 237
MORSE, STEPHEN I. See KONG and MORSE 151, 163
MOSHER, DEANE. See HOVI, MOSHER, and VAHERI 1580
MUDAWWAR, FUAD. See GEHA, MUDAWWAR, and SCHNEEBERGER 1436
MUDGETT, MEREDITH. See YARMUSH, SOGN, MUDGETT, and KINDT 916
MURPHY, DONAL B. See STOUT, MURPHY, MCDEVITT, and HERZENBERG 187
MUSCHEL, RUTH J., ROSEN, NEAL, and BLOOM, BARRY R. Isolation of variants in phagocytosis of a macrophage-like continuous cell line 175

N

NESPOLI, LUIGI, MÖLLER, GÖRAN, WATERFIELD, DOUGLAS, and EKSTEDT, RICHARD. Experimental conditions for obtaining suppressor and helper effects on the primary in vitro immune response by lymphocytes activated by polyclonal T-cell activators 631
NICHOLS, BARBARA A. See BODEL, NICHOLS, and [illegible]AINTON 264
NISONOFF, ALFRED. See JU, GRAY, and NISONOFF 540
—. See OWEN, JU, and NISONOFF 1559
NORCROSS, MICHAEL A., and SMITH, RICHARD T. Regulation of B-cell proliferative responses to lipopolysaccharide by a subclass of thymus T cells 1299
NORTH, ROBERT J., and KIRSTEIN, DAVID P. T-cell-mediated concomitant immunity to syngeneic tumors. I. Activated macrophages as the expressors of nonspecific immunity to unrelated tumors and bacterial parasites 275
—. See SPITALNY and NORTH 1264
NOTKINS, ABNER LOUIS. See IDA, HOOKS, SIRAGANIAN, and NOTKINS 892
NOWAKOWSKI, MAJA. See ROMANO, NOWAKOWSKI, BLOOM, and THORBECKE 666
NUSSENZWEIG, VICTOR. See EHLENBERGER and NUSSENZWEIG 357
—. See TAKAHASHI, TACK, and NUSSENZWEIG 86

O

OETTGEN, HERBERT F. See SHIKU, TAKAHASHI, RESNICK, OETTGEN, and OLD 784
OLD, LLOYD J. See SHIKU, TAKAHASHI, RESNICK, OETTGEN, and OLD 784
OLDSTONE, MICHAEL B. A. See WELSH and OLDSTONE 1449
OLSSON, MARTIN, LINDAHL, GUNNAR, and RUOSLAHTI, ERKKI. Genetic control of alpha-fetoprotein synthesis in the mouse 819
OPTIZ, HANS-G., OPTIZ, UTA, LEMKE, HILMAR, HEWLETT, GUY, SCHREML, WOLFGANG, and FLAD, HANS-D. Their role of fetal calf serum in the primary immune response in vitro 1029
OPITZ, UTA. See OPITZ, OPITZ, LEMKE, HEWLETT, SCHREML, and FLAD 1029
ORKIN, ROSLYN W., GEHRON, PAMELA, MCGOODWIN, ERMONA B., MARTIN, GEORGE R., VALENTINE, THOMAS, and SWARM, RICHARD. A murine tumor producing a matrix of basement membrane 204
ÖRN, ANDERS. See HALLER, KIESSLING, ÖRN, and WIGZELL 1411
OVARY, ZOLTAN. See WATANABE and OVARY 1501
OWEN, FRANCES L., JU, SHYR-TE, and NISON-

OFF, ALFRED. Presence on idiotype-specific suppressor T cells of receptors that interact with molecules bearing the idiotype 1559
OWENS, JAMES D. See MCMASTER, OWENS, DVORAK, WEICHBROD, and ASOFSKY 1101

P

PAGANO, JOSEPH. See MILLER, SHOPE, COOPE, WATERS, PAGANO, BORNKAMM, and HENLE 948
PARISH, CHRISTOPHER R. See MCKENZIE, CLARKE, and PARISH 1039
PARROTT, DELPHINE M. V. See WILKINSON, PARROTT, RUSSELL, and SLESS 1158
PATERSON, PHILIP Y. See WHITACRE and PATERSON 1405
PAUL, WILLIAM E., SHEVACH, ETHAN M., PICKERAL, SUSAN, THOMAS, DAVID W., and ROSENTHAL, ALAN S. Independent populations of primed F_1 guinea pig T lymphocytes respond to antigen-pulsed parental peritoneal exudate cells 618
—. See AHMED, SCHER, SHARROW, SMITH, PAUL, SACHS, and SELL 101
—. See SCHWARTZ, HORTON, and PAUL 327
PECK, AMMON B., ANDERSSON, LEIF C., and WIGZELL, HANS. Secondary in vitro responses of T lymphocytes to non-H-2 alloantigens. Self-H-2-restricted responses induced in heterologous serum are not dependent on primary-stimulating non-H-2 alloantigens 802
PFIZENMAIER, K. See RÖLLINGHOFF, STARZINSKI-POWITZ, PFIZENMAIER, and WAGNER 455
PHILLIPS, ROBERT A. See ABRAMSON, MILLER, and PHILLIPS 1567
PHILLIPS-QUAGLIATA, JULIA M. See MCWILLIAMS, PHILLIPS-QUAGLIATA, and LAMM 866
PICKEL, KARIN, and HOFFMANN, MICHAEL K. The Ly phenotype of suppressor T cells arising in mice subjected to a graft-versus-host reaction 1169
PICKERAL, SUSAN. See PAUL, SHEVACH, PICKERAL, THOMAS, and ROSENTHAL 618
PIERCE, CARL W. See KAPP, PIERCE, and BENACERRAF 828
PILARSKI, LINDA M. A requirement for antigen-specific helper T cells in the generation of cytotoxic T cells from thymocyte precursors 709
—, BRETSCHER, PETER A., and BAUM, LINDA L. Helper T cells are required for the polyclonal stimulation of cytotoxic T cells by concanavalin A 1237
PISETSKY, D. S. See FATHMAN, PISETSKY, and SACHS 569
POLLARD, THOMAS D. See SCHREINER, FUJIWARA, POLLARD, and UNANUE 1393
POSKITT, D. C. See CAHILL, POSKITT, FROST, and TRNKA 420
POULIK, MIROSLOV D. See MICHAELSON, FLAHERTY, VITETTA, and POULIK 1066
PRIMI, DANIELE, HAMMARSTRÖM, LENNART, SMITH, C. I. EDVARD, and MÖLLER, GÖRAN. Characterization of self-reactive B cells by polyclonal B-cell activators 21

R

RAISZ, LAWRENCE G., SIMMONS, HOLLIS A., GWOREK, SUSAN C., and EILON, GABRIEL. Studies on congenital osteopetrosis in microphthalmic mice using organ cultures: impairment of bone resorption in response to physiologic stimulators 857
REICH, E. See VASSALLI and REICH 429
RENOUX, GERARD, and RENOUX, MICHELINE. Thymus-like activities of sulfur derivatives on T-cell differentiation 466
RENOUX, MICHELINE. See RENOUX and RENOUX 466
RESNICK, LOIS A. See SHIKU, TAKAHASHI, RESNICK, OETTGEN, and OLD 784
REYES, PEDRO A. and TAN, ENG M. DNA-binding property of Sm nuclear antigen 749
RICH, MARVIN A. See DIETZ, FOUCHEY, LONGLEY, RICH, and FURMANSKI 594
RICHARDS, FRANK F. See ARMSTRONG, RUDDLE, and RICHARDS 1060
RIPOCHE, MARIE-ANNE. See BERNARD, RIPOCHE, and BENNETT 58
RITZI, E., MARTIN, D. S., STOLFI, R. L., and SPIEGELMAN, S. Plasma levels of a viral protein as a diagnostic signal for the presence of mammary tumor: the effect of tumor removal 999
ROBINSON, DWIGHT R. See DAYER, ROBINSON, and KRANE 1399
RÖLLINGHOFF, M., STARZINSKI-POWITZ, A., PFIZENMAIER, K., and WAGNER, H. Cyclophosphamide-sensitive T lymphocytes suppress the in vivo generation of antigen-specific cytotoxic T lymphocytes 455
ROMANO, THOMAS J., NOWAKOWSKI, MAJA, BLOOM, BARRY R., and THORBECKE, G. JEANETTE. Selective viral immunosuppression of the graft-versus-host reaction 666
ROSE, NOEL R. See ESQUIVEL, ROSE, and KONG 1250
ROSEN, NEAL. See MUSCHEL, ROSEN, and BLOOM 175
ROSENTHAL, ALAN S. See BARCINSKI and ROSENTHAL 726
—. See PAUL, SHEVACH, PICKERAL, THOMAS, and ROSENTHAL 618
ROSER, BRUCE. See DORSCH and ROSER 1144
RUDDLE, NANCY H. See ARMSTRONG, RUDDLE, and RICHARDS 1060
RUDDY, SHAUN. See LITTMAN and RUDDY 1344
RUOSLAHTI, ERKKI. See OLSSON, LINDAHL, and RUOSLAHTI 819
RUSSELL, R. J. See WILKINSON, PARROTT, RUSSELL, and SLESS 1158

S

SACHS, DAVID H. See AHMED, SCHER, SHARROW, SMITH, PAUL, SACHS, and SELL 101

SACHS, DAVID H. See BERZOFSKY, SCHECHTER, SHEARER, and SACHS 111, 123
—. See FATHMAN, PISETSKY, and SACHS 569
—. See HANSEN, CULLEN, MELVOLD, KOHN, FLAHERTY, and SACHS 1436
—. See HANSEN, CULLEN, and SACHS 438
SCHECHTER, ALAN N. See BERZOFSKY, SCHECHTER, SHEARER, and SACHS 111, 123
SCHER, IRWIN. See AHMED, SCHER, SHARROW, SMITH, PAUL, SACHS, and SELL 101
SCHIMPL, A. See HÜNIG, SCHIMPL, and WECKER 1216, 1228
SCHLOSSMAN, STUART F. See EVANS, BREARD, LAZARUS, SCHLOSSMAN, and CHESS 221
SCHNEEBERGER, EVELINE. See GEHA, MUDAWWAR, and SCHNEEBERGER 1436
SCHRADER, JOHN W., and EDELMAN, GERALD M. Joint recognition by cytotoxic T cells of inactivated Sendai virus and products of the major histocompatibility complex 523
SCHREINER, GEORGE F., FUJIWARA, KEIGI, POLLARD, THOMAS D., and UNANUE, EMIL R. Redistribution of myosin accompanying capping of surface Ig 1393
SCHREML, WOLFGANG. See OPITZ, OPITZ, LEMKE, HEWLETT, SCHREML, and FLAD 1029
SCHWARTZ, RONALD H., HORTON, CLARE L., and PAUL, WILLIAM E. T-lymphocyte-enriched murine peritoneal exudate cells. IV. Genetic control of cross-stimulation at the T-cell level 327
SEHGAL, PRAVINKUMAR B. See TAMM and SEHGAL 344
SELA, BEN-AMI, and EDELMAN, GERALD M. Isolation by cell-column chromatography of immunoglobulins specific for cell surface carbohydrates 443
SELL, KENNETH W. See AHMED, SCHER, SHARROW, SMITH, PAUL, SACHS, and SELL 101
SEYER, JEROME M. See BEACHEY, STOLLERMAN, CHIANG, CHIANG, SEYER, and KANG 1469
SHARROW, SUSAN O. See AHMED, SCHER, SHARROW, SMITH, PAUL, SACHS, and SELL 101
SHAW, M. W. See LAMON, SHAW, GOODSON, LIDIN, WALIA, and FUSON 302
SHEARER, GENE M. See BERZOFSKY, SCHECHTER, SHEARER, and SACHS 111, 123
SHEN, F. W. See GLIMCHER, SHEN, and CANTOR 1
SHERIDAN, A. P. C. See DEXTER, MOORE, and SHERIDAN 1612
SHERMAN, LAURENCE A., and LEE, JOAN. Specific binding of soluble fibrin to macrophages 76
SHEVACH, ETHAN M. See PAUL, SHEVACH, PICKERAL, THOMAS, and ROSENTHAL 618
—. See THOMAS and SHEVACH 907
SHIKU, HIROSHI, TAKAHASHI, TOSHITADA, RESNICK, LOIS A., OETTGEN, HERBERT F., and OLD, LLOYD J. Cell surface antigens of human malignant melanoma. III. Recognition of autoantibodies with unusual characteristics 784
SHOPE, THOMAS. See MILLER, SHOPE, COOPE, WATERS, PAGANO, BORNKAMM, and HENLE 948
SHREFFLER, DONALD C. See ZINKERNAGEL, ALTHAGE, ADLER, BLANDEN, DAVIDSON, KEES, DUNLOP, and SHREFFLER 1353
SIGAL, NOLAN H. See GEARHART, SIGAL, and KLINMAN 876
—. See METCALF, SIGAL, and KLINMAN 1382
SIMMONS, HOLLIS A. See RAISZ, SIMMONS, GWOREK, and EILON 857
SIRAGANIAN, REUBEN P. See IDA, HOOKS, SIRAGANIAN, and NOTKINS 892
SISKIND, GREGORY W. See SZEWCZUK, HALLIDAY, SOYBEL, TURNER, SISKIND, and WEKSLER 968
—. See SZEWCZUK and SISKIND 1590
SLESS, F. See WILKINSON, PARROTT, RUSSELL, and SLESS 1158
ŠLJIVIĆ, V. S., and WATSON, SUSAN R. The adjuvant effect of *Corynebacterium parvum*: T-cell dependence of macrophage activation 45
SMITH, ALLAN H. See AHMED, SCHER, SHARROW, SMITH, PAUL, SACHS, and SELL 101
SMITH, C. I. EDVARD. See PRIMI, HAMMARSTRÖM, SMITH, and MÖLLER 21
SMITH, RICHARD T. See NORCROSS and SMITH 1299
SOGN, JOHN A. See YARMUSH, SOGN, MUDGETT, and KINDT 916
SOLTER, DAVOR. See KNOWLES, SOLTER, TRINCHIERI, MALONEY, FORD, and ADEN 314
SOYBEL, THOMAS W. See SZEWCZUK, HALLIDAY, SOYBEL, TURNER, SISKIND, and WEKSLER 968
SPIEGELMAN, S. See RITZI, MARTIN, STOLFI, and SPIEGELMAN 999
SPITALNY, GEORGE L., and NORTH, ROBERT J. Subversion of host defense mechanisms by malignant tumors: an established tumor as a privileged site for bacterial growth 1264
STARZINSKI-POWITZ, A. See RÖLLINGHOFF, STARZINSKI-POWITZ, PFIZENMAIER, and WAGNER 455
STEINER, ALTON L. See EARP, UTSINGER, YOUNT, LOGUE, and STEINER 1087
STOLFI, R. L. See RITZI, MARTIN, STOLFI, and SPIEGELMAN 999
STOLLERMAN, GENE H. See BEACHEY, STOLLERMAN, CHIANG, CHIANG, SEYER, and KANG 1469
STOUT, ROBERT D., MURPHY, Donal B., MCDEVITT, HUGH O., and HERZENBERG, LEONARD A. The Fc receptor on thymus-derived lymphocytes. IV. Inhibition of binding of antigen-antibody complexes to Fc receptor-positive T cells by anti-Ia sera 187
STROBER, SAMUEL. See ZAN-BAR, STROBER, and VITETTA 1188
—. See ZAN-BAR, VITETTA, and STROBER 1206
STURROCK, R. F. See BUTTERWORTH, DAVID, FRANKS, MAHMOUND, DAVID, STURROCK, and HOUBA 136

SWANSON, JOHN. See JAMES and SWANSON 1082
SWARM, RICHARD. See ORKIN, GEHRON, MCGOODWIN, MARTIN, VALENTINE, and SWARM 204
SY, MAN-SUN, See MILLER, SY, and CLAMAN 1071
SZEWCZUK, MYRON R., HALLIDAY, MARK, SOYBEL, THOMAS W., TURNER, DARYL, SISKIND, GREGORY W., and WEKSLER, MARC E. Differences in the mechanism of tolerance to dinitrophenylated bovine gamma globulin when induced in normal adult mice or in reconstituted irradiated mice: dependence of the mechanism of tolerance on the structural organization of the lymphoid system 968
—, and SISKIND, GREGORY W. Ontogeny of B-lymphocyte function. III. In vivo and in vitro studies on the ease of tolerance induction in B lymphocytes from fetal, neonatal, and adult mice 1590

T

TACK, BRIAN F. See TAKAHASHI, TACK, and NUSSENZWEIG 86
TAKAHASHI, MORINOBU, TACK, BRIAN F., and NUSSENZWEIG, VICTOR. Requirements for the solubilization of immune aggregates by complement. Assembly of a factor B-dependent C3-convertase on the immune complexes 86
TAKAHASHI, TOSHITADA. See SHIKU, TAKAHASHI, RESNICK, OETTGEN and OLD 784
TAMM, IGOR, and SEHGAL, PRAVINKUMAR B. A comparative study of the effects of certain halogenated benzimidazole ribosides on RNA synthesis, cell proliferation, and interferon production 344
TAN, ENG M. See REYES and TAN 749
THÈZE, JACQUES, KAPP, JUDITH A., and BENACERRAF, BARUJ. Immunosuppressive factor(s) extracted from lymphoid cells of nonresponder mice primed with L-glutamic acid ^{60}-L-alanine^{30}-L-tyrosine^{10} (GAT). III. Immunochemical properties of the GAT-specific suppressive factor 839
—. See WALTENBAUGH, THÈZE, and BENACERRAF 1278
THOMAS, DAVID W., and SHEVACH, ETHAN M. Nature of the antigenic complex recognized by T lymphocytes. II. T-cell activation by direct modification of macrophage histocompatibility antigens 907
—. See PAUL, SHEVACH, PICKERAL, THOMAS, and ROSENTHAL 618
THORBECKE, G. JEANETTE. See ROMANO, NOWAKOWSKI, BLOOM, and THORBECKE 666
TOURAINE, FRANCOISE. See TOURAINE, HADDEN, TOURAINE, HADDEN, ESTENSEN, and GOOD 460
TOURAINE, JEAN-LOUIS, HADDEN, JOHN W., TOURAINE, FRANCOISE, HADDEN, ELBA M., ESTENSEN, RICHARD, and GOOD, ROBERT A. Phorbol myristate acetate: a mitogen selective for a T-lymphocyte subpopulation 460
TRINCHIERI, GIORGIO. See KNOWLES, SOLTER, TRINCHIERI, MALONEY, FORD, and ADEN 314
TRISSL, DOROTHEA, MARTÍNEZ-PALOMO, ADOLPHO, ARGÜELLO, CARLOS, DE LA TORRE, MARGARITA, and DE LA HOZ, RAFAEL. Surface properties related to concanavalin A-induced agglutination. A comparative study of several *Entamoeba* strains 652
TRNKA, Z. See CAHILL, POSKITT, FROST, and TRNKA 420
TÜRLER, HANS. See IZUI, LAMBERT, FOURNIÉ, TÜRLER, and MIESCHER 1115
TURNER, DARYL. See SZEWCZUK, HALLIDAY, SOYBEL, TURNER, SISKIND, and WEKSLER 968

U

UHR, J. W. See CAMBIER, VITETTA, UHR, and KETTMAN 778
UNANUE, EMIL R. See SCHREINER, FUJIWARA, POLLARD, and UNANUE 1393
UNKELESS, JAY C. The presence of two Fc receptors on mouse macrophages: evidence from a variant cell line and differential trypsin sensitivity 931
UTSINGER, PETER D. See EARP, UTSINGER, YOUNT, LOGUE, and STEINER 1087

V

VADAS, M. A. See MILLER, VADAS, WHITELAW, GAMBLE, and BERNARD 1623
VAHERI, ANTTI. See HOVI, MOSHER, and VAHERI 1580
VALENTINE, THOMAS. See ORKIN, GEHRON, MCGOODWIN, MARTIN, VALENTINE, and SWARM 204
VAN ES, LEENDERT A. See KNUTSON, KIJLSTRA, and VAN ES 1368
VASSALLI, JEAN-DOMINIQUE, and REICH, E. Macrophage plasminogen activator: induction by products of activated lymphoid cells 429
VITETTA, ELLEN S. See CAMBIER, VITETTTA, UHR, and KETTMAN 778
—. See MICHAELSON, FLAHERTY, VITETTA, and POULIK 1066
—. See YUAN, VITETTA, and KETTMAN 1421
—. See ZAN-BAR, STROBER, and VITETTA 1188
—. See ZAN-BAR, VITETTA, and STROBER 1206

W

WAGNER, H. See RÖLLINGHOFF, STARZINSKI-POWITZ, PFIZENMAIER, and WAGNER 455
WALIA, A. S. See LAMON, SHAW, GOODSON, LIDIN, WALIA, and FUSON 302
WALTENBAUGH, CARL, THÈZE, JACQUES, and BENACERRAF, BARUJ. Restriction of primary responses to the IgG class and dependency of IgM responses on secondary immunization for the copolymers of L-glutamic acid, L-tyrosine, and L-alanine 1278

WANNAMAKER, LEWIS W. See CLEARY, WANNAMAKER, FISHER, and LAIBLE 578
WARNER, CAROL M., MCIVOR, JUDITH L., MAURER, PAUL H., and MERRYMAN, CARMEN F. The immune response of allophenic mice to the synthetic polymer L-glutamic acid, L-lysine, L-phenylalanine. II. Lack of gene complementation in two nonresponder strains 766
WARNKE, ROGER, See LEVY, WARNKE, DORFMAN, and HAIMOVICH 1014
WARREN, KENNETH S. See GROVE, MAHMOUD, and WARREN 755
WATANABE, NAOHIRO, and OVARY, ZOLTAN. Suppression of IgE antibody production in SJL mice. III. Characterization of a suppressor substance extracted from normal SJL spleen cells 1501
WATERFIELD, DOUGLAS. See NESPOLI, MÖLLER, WATERFIELD, and EKSTEDT 631
WATERS, LEVIN. See MILLER, SHOPE, COOPE, WATERS, PAGANO, BORNKAMM, and HENLE 948
WATSON, SUSAN R. See ŠLJIVIĆ and WATSON 45
WECKER, E. See HÜNIG, SCHIMPL, and WECKER 1216, 1228
WEICHBROD, ROBERT. See MCMASTER, OWENS, DVORAK, WEICHBROD, and ASOFSKY 1101
WEIGLE, WILLIAM O. See GOODMAN and WEIGLE 473
WEKSLER, MARC E. See INKELES, INNES, KUNTZ, KADISH, and WEKSLER 1176
—. See SZEWCZUK, HALLIDAY, SOYBEL, TURNER, SISKIND, and WEKSLER 968
WELSH, RAYMOND M., and OLDSTONE, MICHAEL B. A. Inhibition of immunologic injury of cultured cells infected with lymphocytic choriomeningitis virus: role of defective interfering virus in regulating viral antigenic expression 1449
WHITACRE, CAROLINE C., and PATERSON, PHILIP Y. Transfer of experimental allergic encephalomyelitis in Lewis rats using supernates of incubated sensitized lymph node cells 1405
WHITELAW, ALISON. See MILLER, VADAS, WHITELAW, GAMBLE, and BERNARD 1623
WIGZELL, HANS. See HALLER, KIESSLING, ÖRN, and WIGZELL 1411
—. See PECK, ANDERSSON, and WIGZELL 802
WIKTOR, TADEUSZ J., DOHERTY, PETER C., and KOPROWSKI, HILARY. Suppression of cell-mediated immunity by street rabies virus 1617
WILKINSON, P. C., PARROTT, DELPHINE M. V., RUSSELL, R. J., and SLESS, F. Antigen-induced locomotor responses in lymphocytes 1158
WILSON, DARCY B. See LINDAHL and WILSON 500, 508
WINCHESTER, ROBERT, J. See MESTECKY, WINCHESTER, HOFFMAN, and KUNKEL 760
WOODY, JIM. See FELDMANN, BEVERLEY, WOODY, and MCKENZIE 793

Y

YARMUSH, MARTIN L., SOGN, JOHN A., MUDGETT, MEREDITH, and KINDT, THOMAS J. The inheritance of antibody V regions in the rabbit: linkage of an H-chain-specific idiotype to immunoglobulin allotypes 916
YOUNT, WILLIAM J. See EARP, UTSINGER, YOUNT, LOGUE, and STEINER 1087
YUAN, DOROTHY, VITETTA, ELLEN S., and KETTMAN, JOHN R. Cell surface immunoglobulin. XX. Antibody responsiveness of subpopulations of B lymphocytes bearing different isotypes 1421

Z

ZALESKI, MAREK, and KLEIN, JAN. *H-2* mutation affecting immune response to Thy-1.1 antigen 1602
ZAMECNIK, PAUL C. See LONG, ZAMECNIK, AISENBERG, and ATKINS 1484
ZAN-BAR, ISRAEL, STROBER, SAMUEL, and VITETTA, ELLEN S. The relationship between surface immunoglobulin isotype and immune function of murine B lymphocytes. I. Surface immunoglobulin isotypes on primed B cells in the spleen 1188
—, VITETTA, ELLEN S., and STROBER, SAMUEL. The relationship between surface immunoglobulin isotype and immune function of murine B lymphocytes. II. Surface immunoglobulin isotopes on unprimed B cells in the spleen 1206
ZINKERNAGEL, ROLF M., and ALTHAGE, ALANA. Antiviral protection by virus-immune cytotoxic T cells: infected target cells are lysed before infectious virus progeny is assembled 644
—, ALTHAGE, ALANA, ADLER, BRIAN, BLANDEN, ROBERT V., DAVIDSON, WENDY F., KEES, URSULA, DUNLOP, MALCOLM, B. C., and SHREFFLER, DONALD C. *H-2* restriction of cell-mediated immunity to an intracellular bacterium. Effector T cells are specific for *Listeria* antigen in association with *H-2I* region-coded self-markers 1353

INDEX TO SUBJECTS

A

Acetate, phorbol myristate, mitogen selective for T-lymphocyte subpopulation, 460
Adenosine 3′:5′-monophosphate, cyclic, and Ig immunofluorescence during capping, correlation in lymphocyte modulation and cyclic nucleotides, 1087
Agglutination, concanavalin A-induced, related surface properties of *Entamoeba* strains, 652
L-Alanine, L-glutamic acid, and L-tyrosine, copolymers in control of IgG and IgM responses on immunization, 1278
L-Alanine^{30}-L-tyrosine^{10}, L-glutamic acid^{60}, immunosuppressive factors from lymphoid cells of primed nonresponder mice, cellular source and effect on responder and nonresponder mice, 828
–L-tyrosine^{10}, L-glutamic acid^{60}, primed nonresponder mice, immunochemical properties of immunosuppressive factors of their lymphoid cells, 839
Alloantigens, B-lymphocyte differentiation, distinguished by alloantiserum, 101
–, non-H-2, responses of T lymphocytes, H-2 restricted responses in heterologous serum not dependent on non-H-2 alloantigens, 802
–, Qa-2, and gene products of 17th mouse chromosome, molecular similarities, 1066
Alloantiserum distinguishing of B-lymphocyte alloantigens, 101
Allogeneic and semiallogeneic bone marrow chimeras, production of differentiated progeny in and maintenance of hemopoietic stem cells, 1612
Allophenic mice, immune response to synthetic polymer, L-glutamic acid, L-lysine, L-phenylalanine, 766
Allotypes, Ig, H-chain-specific linkage, inheritance of antibody V regions in rabbit, 916
Allotype-specific T- and B-cell interaction, prevention of IgG_{2a} production, 743
Alpha-fetoprotein synthesis, genetic control in mouse, 819
Amino terminal region structure of type 24 M antigen, M protein extracted from group A Streptococci with pepsin, 1469
Antibodies, anti-*p*-azophenylarsonate, suppressed with cross-reactive idiotype, frequency of occurrence of idiotype, 540
–, *H-2*-linked control in genetics of immune response to staphylococcal nuclease, 123
Antibody, auto-, recognition, cell surface antigens of human malignant melanoma, 784
–, auto-anti-idiotypic, inhibition of lymphocyte proliferation with histocompatibility antigens and genetic control of immune response in guinea pigs, 1093
– production, IgE, suppression in SJL mice by substance extracted from normal spleen cells, 1501
– response, histologic spectrum, tumor incidence, demonstration of viral DNA and viruses in Epstein-Barr virus-induced lymphoma in marmosets, 948
– response, monoclonal anti-phosphoryl-choline, genetic implications, 876
– responsiveness of B-lymphocyte subpopulations bearing different isotypes in cell surface Ig, 1421
– V regions, inheritance in rabbit, H-chain-specific idiotype linkage to Ig allotypes, 916
Antibody-dependent cell-mediated cytotoxicity in Moloney sarcoma virus, differential activity of IgG and IgM with different lymphocyte subpopulations, 302
– and eosinophil-mediated damage to ^{51}C-labeled *Schistosoma mansoni*, 136
Antibody-producing B cells which lyse sheep erythrocytes, horse erythrocytes, trinitrophenylated or nitroiodophenylated sheep erythrocytes, 1520
Antigen, cell surface, selectively expressed on natural killer cell, 1
– and cellular requirements of T-helper cell generation, 676
–, differentiation, two human T-cell subclasses bearing, 221
–, histocompatibility, control by *I* region of murine *H-2* complex, *K/D* region compatibility not required for cell-mediated lymphocytotoxicity, 450
–, *Listeria*, and *H-2I* region markers, specificity of effector T cells in *H-2* restriction of immunity to intracellular bacterium, 1353
–, Sm nuclear, DNA binding property, 749
–, Thy-1.1, *H-2* mutation affecting immune response, 1602
–, type 24 M, structure of amino terminal region, M protein extracted from group A streptococci with pepsin, 1469
Antigen-activated, histocompatibility, cytotoxic T lymphocytes, frequency of killer cells, 500
–, histocompatibility, cytotoxic T lympho-

cytes, frequency and specificity of precursors, 508
Antigen-activated, lymphocytes or lymphokines, stimulation in complement production by human monocytes, 1344
Antigen-antibody complexes, inhibition of binding to Fc receptor-positive T cells by anti-Ia sera, 187
Antigen-dependent triggering, identification of a B-cell surface structure and its absence on CBA/N mutant mice B cells, 10
Antigenic complex recognition by T lymphocytes, T-cell activation by macrophage histocompatibility antigen modification, 907
– specificities, Ia, oligosaccharide nature revealed in hapten-inhibition, 1039
Antigen-induced fevers in hosts with delayed hypersensitivity, role of lymphocytes, 1288
– locomotor responses in lymphocytes, 1158
Antigen-primed lymphocytes, concanavalin A-mediated activation into secondary cytotoxic lymphocytes, 293
Antigen-pulsed parental peritoneal exudate cells. T-lymphocyte response of primed F_1 donors, 618
Antigens, cell surface, of human malignant melanoma, autoantibody recognition, 784
–, coded, complement-mediated antiserum cytotoxic reactions to human chromosome 7, immunoselection of rearranged chromosome 7 in human-mouse somatic cell hybrids, 314
–, histocompatibility, and genetic control of immune response in guinea pigs, auto-anti-idiotypic antibody inhibition of lymphocyte proliferation, 1093
–, Ia, role in leukemia, 1077
–, macrophage histocompatibility modification, T-cell activation in T-lymphocyte recognition of antigenic complex, 907
–, soluble protein, T-cell help in immune response during anamnestic response to dinitrophenyl keyhole limpet hemocyanin, 1216
–, soluble protein, T-cell help in immune response, reconstitution of responses to dinitrophenyl-carrier conjugates, 1228
Antigen-specific cytotoxic T lymphocytes, suppressed generation by cyclophosphamide-sensitive T lymphocytes, 455
– helper T cells, generation of cytotoxicity from thymocyte precursors, 709
Anti-hapten response diversity, failure of hapten-specific hemolytic plaque assays to detect, 372
Antiserum, complement-mediated, cytotoxic reactions to human chromosome 7 coded antigens, immunoselection of rearranged chromosome 7 in human-mouse somatic cell hybrids, 314
Aryl hydrocarbon hydroxylase and cytochrome P-450 activity, occurrence in rat brain, 1607
p-Azophenylarsonate, anti-, antibodies suppressed with cross-reactive idiotype, frequency of occurrence of idiotypes, 540

B

B and T cells, guinea pig, insulin recognition in intramolecular mapping of immunogenic sites, immune response control of determinant selection, 726
– cell diversification probed by tolerance induction of neonatal murine B cells, 1382
– cell lymphomas, human, monoclonality, 1014
– cell responses to lipopolysaccharide by thymus T-cell subclass, 1299
– cell surface structure, identification in antigen-dependent triggering, absence on CBA/N mutant mice B cells, 10
– cell tolerance in murine B cells, trinitrophenyl human gamma globulin-induced, 778
– cells, mitogen-reactive, frequencies in mouse, 1520
– cells, mitogen-reactive, frequencies in mouse, distribution in different lymphoid organs, 1511
– cells, neonatal murine, tolerance induction as probe of B-cell diversification, 1382
– cells, primed, effects of in spleen, relationship between Ig isotype and immune function of murine B lymphocytes, 1188
– cells, self-reactive, by polyclonal B-cell activators, 21
– cells, unprimed, effects in spleen, relationship between Ig isotype and immune function of murine B lymphocytes, 1206
– lymphoblasts, mesenteric lymph node, homing to small intestine, precommitted to IgA synthesis, 866
– lymphocyte differentiation alloantigens distinguished by alloantiserum, 101
– lymphocyte function, ontogeny, 1590
– lymphocyte subpopulations bearing different isotypes, antibody responsiveness in cell surface Ig, 1484
– lymphocytes from CBA/N and C3H/HeJ mice, defective colony formation, 249
– lymphocytes, murine, relationship between Ig isotype and immune function, effects of isotopes on unprimed B cells in spleen, 1206
– lymphocytes, murine, relationship between Ig isotype and immune function, effects of isotypes on primed B cells in spleen, 1188
Basophils, human, IgE-mediated histamine release by viruses, role of interferon, 892
Benzimidazole ribosides, halogenated, effects on RNA synthesis, cell proliferation, and interferon production, 344
Bile pigment formation by skin heme oxygenase, enzyme response to heme compounds and tissue injury, 1054
Blood flow to lymph nodes, relation to lymphocyte traffic and immune response, 31

Blood moncytes, peroxidase reactivity within rough endoplasmic reticulum after surface adherence, 264
Bone marrow, autonomous function in generation of natural killer cells, 1411
– marrow chimeras, maintenance of hemopoietic stem cells and production of differentiated progeny in allogeneic and semiallogeneic, 1612
– marrow, identification of stem cells of myeloid and lymphoid systems, 1567
– resorption impairment in congenital osteopetrosis in organ cultures of microphthalmic mice, 857
Bordetella pertussis, lymphocyte response to lymphocytosis-promoting factor, 163
– *pertussis* lymphocytosis-promoting factor, effects of proliferative response on murine lymphocyte, 151
– *pertussis* lymphocytosis-promoting factor, lymphocyte response, 163
Brain, rat, occurrence of cytochrome P-450 and aryl hydrocarbon hydroxylase activity, 1607

C

Capping, lymphocyte, correlation of cyclic adenosine 3′:5′-monophosphate during, in lymphocyte modulation and cyclic nucleotides, 1087
– of surface Ig, redistribution of myosin, 1393
Carbohydrates, cell surface, isolation by cell-column chromatography of immunoglobulins, 443
Cellular and antigen requirements of T-helper cell generation, 676
– source and effect of immunosuppressive factors from lymphoid cells of nonresponder mice primed with L-glutamic acid^{60}-L-alanine^{30}-L-tyrosine, 828
Chain, J, and Ig synthesis in pokeweed mitogen-stimulated normal cells and lymphoblastoid cell lines, 760
Chimeras, allogeneic and semiallogeneic bone marrow, maintenance of hemopoietic stem cells and production of differentiated progeny, 1612
Cholesterol synthesis, regulation by low density lipoprotein in human lymphocytes, 1531
Chromatography, cell-column, isolation by immunoglobulins specific for cell surface carbohydrates, 443
Chromium-51-labeled *Schistosoma mansoni*, antibody-dependent and eosinophil-mediated damage, 136
Chromosome 7, human, coded antigens, complement-mediated antiserum cytotoxic reactions to, immunoselection of rearranged chromosome 7 in human-mouse somatic cell hybrids, 314
–, 17th mouse, molecular similarities of Qa-2 alloantigen and gene products, 1066
Colony formation, defective, by B lymphocytes from CBA/N and C3H/HeJ mice, 249
Complement production by human monocytes, stimulation by antigen-activated lymphocytes or lymphokines, 1344
–, solubilization of immune aggregates by, and assembly by factor B-dependent C3-convertase, 86
Complement-mediated antiserum cytotoxic reactions to human chromosome 7 coded antigens, immunoselection of rearranged chromosome 7 in human-mouse somatic cell hybrids, 314
Concanavalin A polyclonal stimulation of cytotoxic T cells requires helper T cells, 1237
Concanavalin A-induced agglutination, related surface properties of *Entamoeba* strains, 652
Concanavalin A-mediated activation of antigen-primed lymphocytes into secondary cytotoxic lymphocytes, 293
Congenital osteopetrosis in organ cultures of microphthalmic mice, bone resorption impairment with physiologic stimulators, 857
Convertase, C3-, factor B-dependent in solubilization of immune aggregates by complement, 86
Copolymers of L-glutamic acid, L-tyrosine, and L-alanine, control of IgG and IgM responses on immunization, 1278
Correction, 1417, 1629
Corynebacterium parvum, T-cell dependence of macrophage activation, 45
Cyclophosphamide-sensitive T lymphocytes, suppression of antigen-specific cytotoxic T-lymphocyte generation, 455
Cytochrome P-450 and aryl hydrocarbon hydroxylase activity, occurrence in rat brain, 1607
Cytokinetic basis for impaired lymphocyte response from aged humans to plant lectins in immunological studies of aging, 1176
Cytotoxic, lymphocytes, secondary, concanavalin A-mediated activation of antigen-primed lymphocytes, 293
– reactions, complement-mediated antiserum, to human chromosome 7 coded antigens, immunoselection of rearranged chromosome 7 in human-mouse somatic cell hybrids, 314
– T cells, antiviral protection, 644
– T cells, helper T cells required for polyclonal stimulation by concanavalin A, 1237
– T cells joint recognition of inactivated Sendai virus and products of histocompatibility complex, 523
– T lymphocytes, antigen-specific, suppressed generation by cyclophosphamide-sensitive T lymphocytes, 455
– T lymphocytes, histocompatibility antigen-

activated, frequency and specificity of precursors, 508
Cytotoxic T-cell responses, suppression in murine lymphocyte choriomeningitis virus infection, 1131
Cytotoxicity, antibody-dependent cell-mediated, in Moloney sarcoma virus, differential activity of IgG and IgM with different lymphocyte subpopulations, 302
– antigen-specific helper T-cell generation from thymocyte precursors, 709

D

D or *H-2K* gene products require no interactions with cytotoxic T lymphocytes specific for *I*-region determinants, 1387
2,4-Dinitrobenzene, 1-fluoro-, tolerance, *H-2* restriction of suppressor T-cell induction by hapten-modified lymphoid cells, 1071
Dinitrophenyl-carrier conjugates, reconstitution of responses in T-cell help in immune responses to soluble protein antigens, 1228
2,4-Dinitrophenyl-keyhole limpet hemocyanin immunization, hapten-specific hypersensitivity to ε-2,4-dinitrophenyl-L-lysine-Ficoll, 1101
Dinitrophenyl-keyhole limpet hemocyanin, T-cell help in immune response to soluble protein antigens during anamnestic response to, 1216
ε-2,4-Dinitrophenyl-L-lysine-Ficoll hapten-specific hypersensitivity in 2,4-dinitrophenyl-keyhole limpet hemocyanin immunization, 1101
Dinitrophenylated bovine gamma globulin, tolerance differentiation when induced in normal adult or irradiated mice and dependence on organization of lymphoid system, 968
DNA, viral, demonstration of and viruses, tumor incidence, histologic spectrum antibody response in Epstein-Barr virus-induced lymphoma in marmosets, 948
DNA-anti-DNA complexes, identification and localization in systemic lupus erythematosus in bacterial lipopolysaccharide-injected mice, 1115
DNA-binding property of Sm nuclear antigen, 749

E

Embryo, distribution of maternal immunoglobulins after implantation of uterus, 58
Encephalomyelitis, allergic, transfer using supernates of incubated lymph node cells, 1405
Endogenous murine leukemia virus expression during protracted immunological disorder, 1060
– pyrogen, release from guinea pig leukocytes, role of lymphocytes in antigen-induced host fevers, 1288
Endoplasmic reticulum, rough, peroxidase reactivity within, of blood monocytes after surface adherence, 264
Entamœba strains, surface properties related to concanavalin A-induced agglutination, 652
Enzyme response to heme compounds and tissue injury in bile pigment formation by skin heme oxygenase, 1054
Eosinophil-mediated and antibody-dependent damage to ^{51}C-labeled *Schistosoma mansoni*, 136
Eosinophils and resistance to *Trichinella spiralis*, 755
Epithelium, respiratory, parasitism by *Mycoplasma pneumoniae*, 1328
Epstein-Barr virus-induced lymphoma in marmosets, tumor incidence, histologic spectrum antibody response, demonstration of viral DNA and viruses, 948
Erythrocytes, sheep, horse, trinitrophenylated or nitroiodophenylated sheep, lysed by antibody-producing B cells, 1520
–, sheep, virus plaque assay of lymphocytes reactive to, in virus-replicating T cells in immune response, 390
Erythroleukemia, regression of Friend virus-induced, role of helper leukemia virus component, 594
Estrogen binding by leukocytes during phagocytosis, 983

F

Fc receptor on thymus-derived lymphocytes and inhibition of antigen-antibody complexes binding to its receptor-positive T cells by anti-Ia sera, 187
– receptors, presence on mouse macrophages evidenced by variant cell line and trypsin sensitivity, 931
Fetal calf serum, role in primary immune response, 1029
Fibrin, soluble, specific binding to macrophages, 76
Fibroblasts or HeLa cells, and mononuclear phagocytes, differences in pyrogen production, 607
Ficoll, ε-2,4-dinitrophenyl-L-lysine-, hapten-specific hypersensitivity in 2,4-dinitrophenyl-keyhole limpet hemocyanin immunization, 1101
1-Fluoro-2,4-dinitrobenzene tolerance, *H-2* restriction of suppressor T-cell induction by hapten-modified lymphoid cells, 1071
Friend virus-induced erythroleukemia, role of helper leukemia virus component in regression, 594

G

Gamma globulin, dinitrophenylated bovine, tolerance differentiation when induced in

normal adult or irradiated mice, and dependence on organization of lymphoid system, 968
Gamma globulin, human- and murine-induced, trinitrophenyl, B-cell tolerance, 778
Gene complementation to two nonresponder strains in immune response of allophenic mice to synthetic polymer, 766
– products and Qa-2 alloantigens of 17th mouse chromosome, molecular similarities, 1066
Genetic control of alpha-fetoprotein synthesis in mouse, 819
– control, and histocompatibility antigens, of immune response in guinea pigs, auto-anti-idiotypic antibody inhibition of lymphocyte proliferation, 1093
– control, immune response of determinant selection, intramolecular mapping of immunogenic sites on insulin recognized by guinea pig T and B cells, 726
– control of immune response to nuclease linkage and strain distribution of anti-nuclease idiotypes, 569
– control of immune response to staphylococcal nuclease and its polypeptide fragments, 111
– implications of monoclonal anti-phosphorylcholine antibody response, 876
– T-cell cross-reactions in T-lymphocyte-enriched peritoneal exudate cells, 327
Genetics of immune response to staphylococcal nuclease and *H-2*-linked control of antibody determinants of nuclease, 123
L-Glutamic acid, L-lysine, L-phenylalanine synthetic polymer, immune response of allophenic mice, 766
–, L-tyrosine, and L-alanine, copolymers in control of IgG and IgM responses on immunization, 1278
L-Glutamic acid^{60}-L-alanine^{30}-L-tyrosine^{10}, immunosuppressive factors from lymphoid cells of primed nonresponder mice, cellular source and effect on responder and nonresponder mice, 828
– primed nonresponder mice, immunochemical properties of immunosuppressive factors of their lymphoid cells, 839
Gonococcus capsule, 1082
Graft-host reaction, Ly phenotype of T cells in subjected mice, 1169
– reaction, viral immunosuppression, 666

H

H-2 complex, murine, *I* region histocompatibility antigen control, *K/D* region compatibility not required for cell-mediated lymphocytotoxicity, 450
– mutation affecting immune response to Thy-1.1 antigen 1602
–, non-, alloantigens, responses of T lymphocytes, H-2-restricted responses in heterologus serum nondependent on non-H-2 alloantigens, 802
H-2 region, immunochemical evidence for close link to *H-2D*, 438
– restriction of immunity to intracellular bacterium, specificity of effector T cells for *Listeria* antigen and *H-2I* region markers, 1353
– restriction of suppressor T-cell induction by hapten-modified lymphoid cells in 1-fluoro-2,4-dinitrobenzene tolerance, 1071
H-2-associated histocompatibility gene linked to *H-2D*, mutation, 1550
H-2D, immunochemical evidence for additional *H-2* region link, 438
– link to mutation in *H-2*-associated histocompatibility gene, 1550
H-2I region and *Listeria* antigen, specificity of effector T cells in *H-2* restriction of immunity to intracellular bacterium, 1353
H-2K or *D* gene products require no interactions with cytotoxic T lymphocytes specific for *I*-region determinants, 1387
Halogenated benzimidazole ribosides, effects on RNA synthesis, cell proliferation, and interferon production, 344
Hapten, independent, and thymus-dependent, trinitrophenyl human gamma globulin-induced B-cell tolerance in neonatal murine B-cell response, 778
Hapten-inhibition on oligosaccharide nature of Ia antigenic specificities, 1039
Hapten-specific hemolytic plaque assays, failure to detect anti-hapten response diversity, 372
– hypersensitivity to ε-2,4-dinitrophenyl-L-lysine-Ficoll in 2,4-dinitrophenyl-keyhole limpet hemocyanin immunization, 1101
H-chain-specific idiotype linkage to Ig allotypes, inheritance of antibody V regions in rabbit, 916
HeLa cells or fibroblasts, and mononuclear phagocytes, differences in pyrogen production, 607
Hematopoietic thymocyte precursors, properties, 405
Heme oxygenase, skin, bile pigment formation, enzyme response to heme compounds and tissue injury, 1054
Hemocyanin, 2,4-dinitrophenyl-keyhole limpet, immunization, hapten-specific hypersensitivity to ε-2,4-dinitrophenyl-L-lysine-Ficoll, 1101
–, dinitrophenyl keyhole limpet, T-cell help in immune response to soluble protein antigens during anamnestic response, 1216
Hemolytic, hapten-specific, plaque assays, failure to detect anti-hapten response diversity, 372
Hemopoietic stem cells, maintenance, and production of progeny in allogeneic and semiallogeneic bone marrow chimeras, 1612
Histamine release, IgE-mediated, from human basophils by viruses, role of interferon, 892
Histocompatibility antigen control by *I* region of murine *H-2* complex, *K/D* region compatibility not required for cell-mediated lympho-

cytotoxicity, 450
Histocompatibility antigen modification, macrophage T-cell activation in T-lymphocyte recognition of antigenic complex, 907
– antigen-activated cytotoxic T lymphocytes, frequency of killer cells, 500
– antigen-activated cytotoxic T lymphocytes, frequency and specificity of precursors, 508
– antigens and genetic control of immune response in guinea pigs, auto-anti-idiotypic antibody inhibition of lymphocyte proliferation, 1093
– complex products and inactivated Sendai virus, joint recognition by cytotoxic T cells, 523
– gene, mutation in *H-2*-associated, linked to *H-2D*, 1550
Histocompatibility-linked immune responsiveness and restrictions on sensitized lymphocytes, 1623
Hodgkin's disease, morphologic, cytogenetic, cell surface, enzymatic properties of tissue cultures derived from splenic tumors, 1484
Host defense mechanisms, subversion by malignant tumors, tumor as site for bacterial growth, 1264
Host-graft reaction, Ly phenotype of T cells in subjected mice, 1169
– reaction, viral immunosuppression, 666
Hosts with delayed hypersensitivity, role of lymphocytes in antigen-induced fevers, 1288
Hybrids, somatic cell, immunoselection of rearranged human chromosome 7, complement-mediated cytotoxic reactions to human chromosome 7 coded antigens, 314
Hydrocarbon hydroxylase, aryl, and cytochrome P-450 activity, occurrence in rat brain, 1607
Hydroxylase, aryl hydrocarbon, and cytochrome P-450 activity, occurrence in rat brain, 1607
Hypersensitivity, delayed, role of lymphocytes in antigen-induced fevers, 1288
–, delayed, suppressive regulatory T_1-cell population, 237
–, hapten-specific, to ϵ-2,4-dinitrophenyl-L-lysine-Ficoll in 2,4-dinitrophenyl-keyhole limpet immunization, 1101

I

Idiotype, H-chain-specific, linkage to Ig allotypes, inheritance of antibody V regions in rabbit, 916
Idiotypes, anti-nuclease linkage and strain distribution, and genetic control to immune response to nuclease, 569
–, anti-*p*-azophenylarsonate antibodies suppressed with cross-reactive idiotype, frequency of occurrence, 540
Idiotype-specific T cells, presence of receptors interacting with molecules bearing idiotype, 1559
Immunity, auto-, induction in responder mice with mouse thyroglobulin and lipopolysaccharide, 1250
–, cell-mediated, suppression by street rabies virus, 1617
–, *H-2* restriction to intracellular bacterium, specificity of effector T cells for *Listeria* antigen and *H-2I* region markers, 1353
–, T-cell-mediated, to syngeneic tumors, macrophages as expressors of nonspecific immunity to unrelated tumors and bacterial parasites, 275
Immunization, control of IgG and IgM responses for copolymers of L-glutamic acid, L-tyrosine, and L-alanine, 1278
– with influenza A virus, generation of cross-reactive and virus-specific T-cell populations, 557
Immunochemical evidence for additional *H-2* region closely linked to *H-2D*, 438
– properties of immunosuppressive factors of lymphoid cells of nonresponder mice primed with L-glutamic acid^{60}-L-alanine^{30}-L-tyrosine^{10}, 839
Immunofluorescence, Ig, correlation with cyclic adenosine 3′:5′-monophosphate during capping in lymphocyte modulation and cyclic nucleotides, 1087
Immunoglobulin A synthesis, precommitted mesenteric lymph node B lymphoblasts homing to small intestine, 866
– allotypes, H-chain-specific idiotype linkage, inheritance of antibody V regions in rabbit, 916
–, cell surface, antibody responsiveness of B-lymphocyte subpopulations bearing different isotypes, 1421
– E antibody production, suppression in SJL mice by substance extracted from normal spleen cells, 1501
– E-mediated histamine release from human basophils by viruses, role of interferon, 892
– G, aggregated, from rat peritoneal macrophages, 1368
– G and IgM, control of responses on immunization for copolymers of L-glutamic acid, L-tyrosine, and L-alanine, 1278
– G and IgM, differential activity with different lymphocyte subpopulations in antibody-dependent cell-mediated cytotoxicity in Moloney sarcoma virus, 302
– G receptors, specificity on cell types and definition on macrophage cell line, 1316
– G_{2a}, prevention by allotype-specific interaction between T and B cells, 743
– immunofluorescence, correlation with cyclic adenosine 3′:5′-monophosphate during capping in lymphocyte modulation and cyclic nucleotides, 1087
– isotype and immune function of murine B lymphocytes, relationship between and effects of isotopes on unprimed B cells in spleen, 1206

Immunoglobulin isotype and immune function of murine B lymphocytes, relationship between and effects of isotypes on primed B cells in spleen, 1188
– M and IgG, control of responses on immunization for copolymers of L-glutamic acid, L-tyrosine, and L-alanine, 1278
– M and IgG, differential activity with different lymphocyte subpopulations in antibody-dependent cell-mediated cytotoxicity in Moloney sarcoma virus, 302
–, surface, redistribution of myosin with capping, 1393
Immunoglobulins and J chain synthesis in pokeweed mitogen-stimulated normal cells and lymphoblastoid cell lines, 760
–, maternal, in uterus and embryo following days after implantation, 58
– specific for cell surface carbohydrates, isolation by cell-column chromatography, 443
Immunologic injury, inhibition of cultured cells infected with lymphocytic choriomeningitis virus, role in regulating viral antigenic expression, 1449
Immunological disorder, protracted, endogenous murine leukemia virus expression, 1060
– studies of aging, cytokinetic basis for impaired lymphocyte response from aged humans to plant lectins, 1176
Immunoselection of rearranged human chromosome 7 in human-mouse somatic cell hybrids, complement-mediated cytotoxic reactions to human chromosome 7 coded antigens, 314
Immunosuppression, viral, of graft-host reaction, 666
Immunosuppressive factors from lymphoid cells of nonresponder mice primed with L-glutamic acid^{60}-L-alanine^{30}-L-tyrosine^{10}, immunochemical properties, 839
Influenza A virus immunization, generation of cross-reactive and virus-specific T-cell populations, 557
Insulin, recognized by guinea pig T and B cells, intramolecular mapping of immunogenic sites, immune response gene control of determinant selection, 726
Interferon production, RNA synthesis and cell proliferation, effects of halogenated benzimidazole ribosides, 344
–, role in IgE-mediated histamine release from human basophils by viruses, 892
Intestinal and nodal recirculating T lymphocytes, migratory characteristics, 420
Intracellular bacterium, *H-2* restriction immunity, specificity of effector T cells for *Listeria* antigen and *H-2I* region markers, 1353
Intramolecular mapping of immunogenic sites on insulin recognized by guinea pig T and B cells in immune response gene control of determinant selection, 726
I-region determinants require no interactions with *H-2K* or *D* gene products with cytotoxic T lymphocytes, 1387
– histocompatibility antigen control of murine H-2 complex, *K/D* region compatibility not required for cell-mediated lymphocytotoxicity, 450
Irradiated or normal adult mice, tolerance differentiation to dinitrophenylated bovine gamma globulin and dependence on organization of lymphoid system, 968
Isotopes, effects on unprimed B cells in spleen in relationship between Ig isotype and immune function of murine B lymphocytes, 1206
Isotype, Ig, and immune function of murine B lymphocytes, relationship between and effects of isotopes on unprimed B cells in spleen, 1206
–, Ig, and immune function of murine B lymphocytes, relationship between and effects of isotypes on primed B cells in spleen, 1188
Isotypes, B-lymphocyte subpopulations bearing, antibody responsiveness in cell surface Ig, 1484

K

K/D-region compatibility not required for cell-mediated lymphocytotoxicity in *I* region histocompatibility antigen control of murine *H-2* complex, 450
Killer cell, selectively expressed cell-surface antigen, 1
– cells, frequency with histocompatibility antigen-activated cytotoxic T lymphocytes, 500
– cells, natural, generation of and autonomous cells function of bone marrow, 1411

L

Lectins, plant, immunological studies of aging, cytokinetic basis for impaired lymphocyte response from aged humans to, 1176
Leukemia, role of Ia antigens, 1077
– virus component, role in regression of Friend virus-induced erythroleukemia, 594
– viruses, endogenous murine, expression during protracted immunological disorder, 1060
Leukocytes, estrogen binding during phagocytosis, 983
–, guinea pig, release of endogenous pyrogen, role of lymphocytes in antigen-induced host fevers, 1288
Lipopolysaccharide, B-cell response by thymus T-cell subclass, 1299
– and mouse thyroglobulin, induction of autoimmunity in responder mice, 1250
Lipopolysaccharides, bacterial, systemic lupus erythematosus in injected mice, identification and localization of DNA-anti-DNA complexes, 1115
Lipoprotein, low density, regulation of choles-

terol synthesis in human lymphocytes, 1531
Listeria antigen and *H-2I* region markers, specificity of effector T cells in *H-2* restriction of immunity to intracellular bacterium, 1353
L-Lysine-Ficoll, ϵ-2,4-dinitrophenyl-, hapten-specific hypersensitivity in 2,4-dinitrophenyl-keyhole limpet hemocyanin immunization, 1101
L-Lysine, L-phenylalanine, L-glutamic acid, synthetic polymer, immune response of allophenic mice, 766
Lupus erythematosus, systemic, in bacterial lipopolysaccharide-injected mice, identification and localization of DNA-anti-DNA complexes, 1115
Lymph node cells, incubated, supernates in transfer of allergic encephalomyelitis, 1405
– node, mesenteric, B lymphoblasts homing to small intestine, precommitted to IgA synthesis, 866
– nodes, blood flow to and relation to lymphocyte traffic and immune response, 31
Lymphoblastoid and normal cells, pokeweed mitogen-stimulated in the synthesis of Ig and J chains, 760
Lymphocyte modulation and cyclic nucleotides, correlation of cyclic adenosine 3′:5′-monophosphate and Ig immunofluorescene during capping, 1087
– proliferation, auto-anti-idiotypic antibody inhibition with histocompatibility antigens and genetic control of immune response in guinea pigs, 1093
– response to *Bordetella pertussis* lymphocytosis-promoting factor, 163
– traffic and immune response, relation of blood flow to lymph nodes, 31
Lymphocytes activated by polyclonal T cell, primary immune response, 631
–, antigen-induced locomotor responses, 1158
–, antigen-primed, concanavalin A-mediated activation into secondary cytotoxic lymphocytes, 293
–, cytokinetic basis for impaired response from aged humans to plant lectins in immunological studies of aging, 1176
–, different subpopulations with differential activity of IgG and IgM in antibody-dependent cell-mediated cytotoxicity in Moloney sarcoma virus, 302
–, human, regulation of cholesterol synthesis by low density lipoprotein, 1531
–, murine, proliferative response to *Bordetella pertussis* lymphocytosis-promoting factor, 151
– or lymphokines, antigen-activated, stimulation in complement production by human monocytes, 1344
–, nonspecific polyclonal activation by 2-mercaptoethanol and α-thioglycerol, 473
Lymphocyte reactive to sheep erythrocytes, virus plaque assay in virus-replicating T cells in immune response, 390
–, role in antigen-induced fevers in hosts with delayed hypersensitivity, 1288
–, secondary cytotoxic, concanavalin A-mediated activation of antigen-primed lymphocytes, 293
–, sensitized, histocompatibility-linked immune responsiveness and restrictions, 1623
Lymphocytic choriomeningitis, murine, virus infection, suppression of cytotoxic T-cell responses, 1131
– choriomeningitis virus, inhibition of immunologic injury of infected cultured cells, role in regulating viral antigenic expression, 1449
Lymphocytosis-promoting factor, effects of proliferative response to *Bordetella pertussis* on murine lymphocytes, 151
Lymphocytotoxicity, cell-mediated, *K/D* region compatibility not required in *I* region histocompatibility antigen control of murine *H-2* complex, 450
Lymphoid cells, activated, induction of macrophage plasminogen activator, 429
– cells, hapten-modified, *H-2* restriction of suppressor T-cell induction in 1-fluoro-2,4-dinitrobenzene tolerance, 1071
– cells, immunosuppresive factors from, of nonresponder mice primed with L-glutamic acid^{60}-L-alanine^{30}-L-tyrosine^{10}, cellular source and effect on responder and nonresponder mice, 828
– cells, immunosuppressive factors from, of nonresponder mice primed with L-glutamic acid^{60}-L-alanine^{30}-L-tyrosine^{10}, immunochemical properties, 839
– and myeloid systems, identification in bone marrow of stem cells, 1567
– organs, distribution, frequencies of mitogen-reactive B cells in mouse, 1511
– system, dependence on organization and tolerance differentiation when induced in normal adult or irradiated mice, 968
Lymphokines or lymphocytes, antigen-activated, stimulation in complement production by human monocytes, 1344
Lymphoma, Epstein-Barr virus-induced in marmosets, tumor evidence, histologic spectrum antibody response, demonstration of viral DNA and viruses, 948
Lymphomas, human B-cell, monoclonality, 1014
Ly phenotype of T cells in mice subjected to graft-host reaction, 1169

M

α_2-Macroglobulin synthesis and secretion by cultured human monocytes, 1580

Macrophage activation with *Corynebacterium parvum*, T-cell dependence, 45
– cell line, definition, and specificity of IgG receptors on cell types, 1316
– histocompatibility antigen modification, T-cell activation in T-lymphocyte recognition of antigenic complex, 907
– plasminogen activator, induction of activated lymphoid cells, 429
Macrophage-like cell line, isolation of variants in phagocytosis, 175
Macrophages, presence of Fc receptors evidenced by variant cell line and trypsin sensitivity, 931
–, rat peritoneal, aggregated IgG, 1368
–, specific binding of soluble fibrin, 76
Malignant tumors, subversion of host mechanisms, tumor as site for bacterial growth, 1264
Mammary tumor, plasma levels of viral protein signaling presence, effect of tumor removal, 999
Man, basophils, IgE-mediated histamine release by viruses, role of interferon, 892
–, B-cell lymphomas, monoclonality, 1014
–, chromosome 7 coded antigens, complement-mediated antiserum cytotoxic reactions to, immunoselection of rearranged chromosome 7 in human-mouse somatic cell hybrids, 314
–, lymphocytes, regulation of cholesterol synthesis by low density lipoprotein, 1531
–, malignant melanoma, cell surface antigens, autoantibody recognition, 784
–, monocytes, complement production, stimulation by antigen-activated lymphocytes or lymphokines, 1344
–, monocytes, cultured, synthesis and secretion of α_2-macroglobulin, 1580
–, mononuclear cell stimulation of prostaglandin production by rheumatoid synovial cells, 1399
–, specificity of T-cell helper factor, 1436
–, trinitrophenyl gamma globulin-induced B-cell tolerance in murine B cells response to thymus-dependent and independent hapten, 778
–, two T-cell subclasses bearing differentiation antigens, 221
Melanoma, human malignant, cell surface antigens, autoantibody recognition, 784
Membrane, basement, matrix of, produced by murine tumor, 204
– phenotype analysis of precursor and amplifier cells, T-T interactions in suppressor and helper T cells, 793
– receptors, role for C3b and C3d in phagocytosis, 357
Meningitis, *Streptococcus suis*, reference in the teichoic acids of group D streptococci, 490
2-Mercaptoethanol and α-thioglycerol nonspecific polyclonal activation of lymphocytes, 473
Mesenteric lymph node B lymphoblasts homing to small intestine, precommitted to IgA synthesis, 866
Microphthalmic mice, congenital osteopetrosis in organ cultures, bone resorption impairment with physiologic stimulators, 857
Mitogen, phorbol myristate acetate, selective for T-lymphocyte subpopulation, 460
Mitogen-reactive B cells, frequencies in mouse, 1520
– B cells, frequencies in mouse, distribution in different lymphoid organs, 1511
Mitogen-stimulated, pokeweed, normal cells and lymphoblastoid cell lines in the synthesis of Ig and J chains, 760
Molecular similarities of Qa-2 alloantigen and gene products of 17th mouse chromosome, 1066
Molecules bearing idiotype, presence on idiotype-specific T cells of interacting receptors, 1559
Moloney sarcoma virus, antibody-dependent cell-mediated cytotoxicity, differential activity of IgG and IgM with different lymphocyte subpopulations, 302
Monoclonal anti-phosphorylcholine antibody response, genetic implications, 876
Monoclonality of human B-cell lymphomas, 1014
Monocytes, blood, peroxidase reactivity within rough endoplasmic reticulum after surface adherence, 264
–, human, complement production, stimulation by antigen-activated lymphocytes or lymphokines, 1344
–, human, cultured, synthesis and secretion of α_2-macroglobulin, 1580
Mononuclear cell, human, stimulation of prostaglandin production by rheumatoid synovial cells, 1399
– phagocytes and fibroblasts or HeLa cells, differences in pyrogen production, 607
3′:5′-Monophosphate, cyclic adenosine, and Ig immunofluorescence during capping, correlation in lymphocyte modulation and cyclic nucleotides, 1087
Mutation, *H-2*, affecting immune response to Thy-1.1 antigen, 1602
– in *H-2*-associated histocompatibility gene linked to *H-2D*, 1550
Mycoplasma pneumoniae, parasitism of respiratory epithelium, 1328
Myeloid and lymphoid systems, identification in bone marrow of stem cells, 1567
Myosin, redistribution with capping of surface Ig, 1393
Myristate acetate, phorbol, mitogen selective for T-lymphocyte subpopulation, 460

N

Neonatal murine B cells, tolerance induction as probe of B-cell diversification, 1382

Neonatal murine B cells, trinitrophenyl human gamma globulin-induced B-cell tolerance, responsive to thymus-dependent and independent hapten, 778
Nodal and intestinal recirculating T lymphocytes, migratory characteristics, 420
Nuclear antigen, Sm, DNA-binding property, 749
Nuclease, genetic control of immune response to, linkage and strain distribution of antinuclease idiotypes, 569
–, staphylococcal, and its polypeptide fragments, genetics of immune response, 111
Nucleotides, cyclic, and lymphocyte modulation, correlation of cyclic adenosine 3′:5′-monophosphate and Ig immunofluorescence during capping, 1087

O

Oligosaccharide nature of Ia antigenic specificities revealed in hapten-inhibition, 1039
Ontogeny of B-lymphocyte function, 1590
Osteopetrosis, congenital, in organ cultures of microphthalmic mice, bone resorption impairment with physiologic stimulators, 857
Oxygenase, skin heme, bile pigment formation, enzyme response to heme compounds and tissue injury, 1054

P

Parasites, bacterial, and unrelated tumors, macrophages as expressors of nonspecific immunity in T-cell-mediated immunity to syngeneic tumors, 275
Parasitism of respiratory epithelium by *Mycoplasma pneumoniae*, 1328
Pepsin, with group A streptococci, M protein extracted from, structure of amino terminal region of type 24 M antigen, 1469
Peptidoglycan in reversible adsorption of phage A25 receptor in group A streptococci, 578
Peritoneal exudate cells, parental, antigen-pulsed T-lymphocyte response of primed F_1 donors, 618
– exudate cells, T-lymphocyte-enriched in genetic T-cell cross-reactions, 327
– macrophages, rat, aggregated IgG, 1368
Peroxidase reactivity within rough endoplasmic reticulum of blood monocytes after surface adherence, 264
Phage A25 receptor, group A streptococci, role of peptidoglycan in reversible adsorption, 578
Phagocytes, mononuclear, and fibroblasts or HeLa cells, differences in pyrogen production, 607
Phagocytosis, estrogen binding by leukocytes, 983
–, role of membrane receptors for C3b and C3d, 357
Phagocytosis, variants isolated from macrophage-like cell line, 175
Phenotype, Ly, of T cells in mice subjected to graft-host reaction, 1169
–, membrane, analysis of precursor and amplifier cells, T-T interactions in suppressor and helper T cells, 793
L-Phenylalanine, L-glutamic acid, L-lysine synthetic polymer, immune response of allophenic mice, 766
Phenylarsonate, anti-*p*-azo, antibodies, suppressed with cross-reactive idiotype, frequency of occurrence of idiotype, 540
Phorbol myristate acetate, mitogen selective for T-lymphocyte subpopulation, 460
Phosphorylcholine, anti-, monoclonal antibody response, genetic implications, 876
Plasma levels of viral protein signaling presence of mammary tumor, effect of tumor removal, 999
Plasminogen activator, macrophage, induction of activated lymphoid cells, 429
Plaque assays, hapten-specific hemolytic, failure to detect anti-hapten response diversity, 372
–, virus, assays of lymphocytes reactive to sheep erythrocytes, virus-replicating T cells in immune response, 390
Polyclonal activation, nonspecific, of T lymphocytes by 2-mercaptoethanol and α-thioglycerol, 473
– B-cell activators, effect on self-reactive B cells, 21
– stimulation of cytotoxic T cells by concanavalin A, helper T cells required, 1237
– T-cell-activated lymphocytes, suppressor and helper effects on primary immune response, 631
Polymer, synthetic L-glutamic acid, L-lysine, L-phenylalanine, immune response of allophenic mice, 766
Polypeptide fragments and staphylococcal nuclease, genetics of immune response, 111
Prostaglandin production by rheumatoid synovial cells from human mononuclear cell stimulation, 1399
Protein antigens, soluble, T-cell help in immune response during anamnestic response to dinitrophenyl keyhole limpet hemocyanin, 1216
– antigens, soluble, T-cell help in immune response, reconstitution of responses to dinitrophenyl-carrier conjugates, 1228
–, M, extracted from group A streptococci with pepsin, structure of amino terminal region of type 24 M antigen, 1469
–, viral, plasma levels signaling presence of mammary tumor, effect of tumor removal, 999
Pyrogen, endogenous, release from guinea pig leukocytes, role of lymphocytes in antigen-induced host fevers, 1288
– production differences by mononuclear

phagocytes and fibroblasts or HeLa cells, 607

R

Rabies virus, street, suppression of cell-mediated immunity, 1617
Radioactive ^{51}C-labeled *Schistosoma mansoni*, antibody-dependent and eosinophil-mediated damage, 136
Respiratory epithelium, parasitism by *Mycoplasma pneumoniae*, 1328
Rheumatoid synovial cell prostaglandin production from human mononuclear cell stimulation, 1399
Ribosides, halogenated benzimidazole, effects on RNA synthesis, cell proliferation, and interferon production, 344
RNA synthesis, cell proliferation, and interferon production, effects of halogenated benzimidazole ribosides, 344

S

Sarcoma virus, Moloney, antibody-dependent cell-mediated cytotoxicity, differential activity of IgG and IgM with different lymphocyte subpopulations, 302
Schistosoma mansoni, ^{51}C-labeled, antibody-dependent and eosinphil-mediated damage, 136
Sendai virus, inactivated, and products of histocompatibility complex, joint recognition by cytotoxic T cells, 523
Sera, anti-Ia, inhibition of antigen-antibody complexes binding to Fc receptor-positive T cells, 187
Serum alloanti-, distinguishing of B-lymphocyte alloantigens, 101
–, fetal calf, role in primary immune response, 1029
–, heterologous, *H-2*-restricted responses nondependent on non-*H-2* alloantigens, responses of T lymphocytes, 802
Skin heme oxygenase, bile pigment formation, enzyme response to heme compounds and tissue injury, 1054
Solubilization of immune aggregates by complement C3-convertase, factor B-dependent, 86
Soluble fibrin, specific binding to macrophages, 76
– protein antigens, T-cell help in immune response during anamnestic response to dinitrophenyl keyhole limpet hemocyanin, 1216
– protein antigens, T-cell help in immune response, reconstitution of responses to dinitrophenyl-carrier conjugates, 1228
Spleen cells, substance extracted from, for suppression of IgE antibody production in SJL mice, 1501
–, effects of isotopes on unprimed B cells in relationship between Ig isotype and immune function of murine B lymphocytes, 1206
Spleen, effects of isotypes on primed B cells in, relationship between Ig isotype and immune function of murine B lymphocytes, 1188
Somatic cell hybrids, immunoselection of rearranged human chromosome 7, complement-mediated cytotoxic reactions to human chromosome 7 coded antigens, 314
Sulfur derivatives, thymus-like activities on T-cell differentiation, 466
Supernates of incubated lymph node cells in transfer of allergic encephalomyelitis, 1405
–, T-cell-derived analysis, and generation of T-helper cells, 693
Staphylococcal nuclease, genetics of immune response and *H-2*-linked control of antibody determinants, 123
Stem cells, hemopoietic, maintenance, and production of progeny in allogeneic and semiallogeneic bone marrow chimeras, 1612
– cells, identification in bone marrow of myeloid and lymphoid systems, 1567
Streptococci, group A with pepsin, M protein extracted from, structure of amino terminal region of type 24 M antigen, 1469
–, group A, phage A25 receptor, role of peptidoglycan in reversible adsorption, 578
Streptococcus suis, reference in teichoic acids of group D streptococci, 490
Syngeneic tumors, T-cell-mediated immunity to, macrophages as expressors of nonspecific immunity to unrelated tumors and bacterial parasites, 275
Synovial cell, rheumatoid, prostaglandin production from human mononuclear cell stimulation, 1399

T

T and B cells, allotype-specific interaction, prevention of IgG_{2a} production, 743
– and B cells, guinea pig, insulin recognition in intramolecular mapping of immunogenic sites, immune response gene control of determinant selection, 726
– cell activation by macrophage histocompatibility antigen modification in T-lymphocyte recognition of antigenic complex, 907
– cell cross-reactions, genetic, in T-lymphocyte-enriched peritoneal exudate cells, 327
– cell dependence of macrophage activation with *Corynebacterium parvum*, 45
– cell differentiation, thymus-like activities of sulfur derivatives, 466
– cell help in immune response to soluble protein antigens during anamnestic response to dinitrophenyl keyhole limpet hemocyanin, 1216
– cell help in immune response to soluble protein antigens, reconstitution of responses to dinitrophenyl-carrier conjugates, 1228
– cell helper factor, specificity in man, 1436
– cell, human, two subclasses bearing differ-

entiation antigens, 221
T cell induction, *H-2* restriction by hapten-modified lymphoid cells in 1-fluoro-2,4-dinitrobenzene tolerance, 1071
– cell populations, generation of cross-reactive and virus-specific, after influenza A virus immunization, 557
– cell responses, cytotoxic, suppression in murine lymphocyte choriomeningitis virus infection, 1131
– cell, thymus, subclass, B-cell responses to lipopolysaccharide, 1299
– cell-activated lymphocytes, polyclonal, primary immune response, 631
– cell-mediated immunity to syngeneic tumors, macrophages as expressors of nonspecific immunity to unrelated tumors and bacterial parasites, 275
– cells, antigen-specific helper, generation of cytotoxicity from thymocyte precursors, 709
– cells, cytotoxic, antiviral protection, 644
– cells, cytotoxic, helper T cells required for polyclonal stimulation by concanavalin A, 1237
– cells, cytotoxic, joint recognition of inactivated Sendai virus and products of histocompatibility complex, 523
– cells, Fc receptor-positive, anti-Ia sera inhibition of antigen-antibody complexes, 187
– cells, helper, cellular and antigen requirements of generation, 676
– cells, helper, generation and analysis of T-cell-derived supernates, 693
– cells, helper, required in polyclonal stimulation of cytotoxic T cells by concanavalin A, 1237
– cells, idiotype-specific, presence of receptors interacting with molecules bearing idiotype, 1559
– cells, Ly phenotype in mice subjected to graft-host reaction, 1169
– cells, recirculating suppressor, in transplantation tolerance, 1144
– cells, specificity of effector for *Listeria* antigen and *H-2I* markers, in *H-2* restriction of immunity to intracellular bacterium, 1353
– cells, suppressor and helper, T-T interactions in induction of, analysis of membrane phenotype of precursor and amplifier cells, 793
– cells, virus-replicating, in immune response, plaque assays of lymphocytes reactive to sheep erythrocytes, 390
– lymphocyte from primed F_1 donors, response to antigen-pulsed parental peritoneal exudate cells, 618
– lymphocyte recognition of antigenic complex, T-cell activation by macrophage histocompatibility antigen modification, 907
– lymphocyte-enriched peritoneal exudate cells in genetic T-cell cross-reactions, 327
T lymphocytes, cyclophosphamide-sensitive, suppression of antigen-specific cytotoxic T-lymphocyte generation, 455
– lymphocytes, cytotoxic, for *I*-region determinants require no interactions with *H-2K* or *D* gene products, 1387
– lymphocytes, histocompatibility antigen-activated, cytotoxic, frequency of killer cells, 500
– lymphocytes, histocompatibility antigen-activated, cytotoxic, frequency and specificity of precursors, 508
– lymphocytes, recirculating, migratory characteristics of nodal and intestinal, 420
– lymphocytes, responses to non-H-2 alloantigens, H-2-restricted responses in heterologous serum nondependent on non-H-2 alloantigens, 802
T_1-cell population, suppressive regulatory evidence in delayed hypersensitivity, 237
Teichoic acids, group D streptococci, with reference to *Streptococcus suis*, 490
α-Thioglycerol and 2-mercaptoethanol nonspecific polyclonal activation of lymphocytes, 473
Thymocyte precursors, antigen-specific helper T cells, generation of cytotoxicity, 709
– precursors, hematopoietic, properties, 405
Thymus T-cell subclass, B-cell responses to lipopolysaccharide, 1299
–, transplacental influence, 772
Thymus-derived lymphocytes, inhibition of antigen-antibody complexes binding to Fc receptor-positive T cells by anti-Ia sera, 187
Thymus-like activities of sulfur derivatives on T-cell differentiation, 466
Thyroglobulin, mouse, and lipopolysaccharide, induction of autoimmunity in responder mice, 1250
Tissue culture studies in Hodgkin's disease, morphologic, cytogenetic, cell surface, enzymatic properties derived from splenic tumors, 1484
– injury and heme compounds, enzyme response in bile pigment formation by skin heme oxygenase, 1054
Transplacental influence of thymus, 772
Transplantation tolerance, recirculating suppressor T cells, 1144
Trichinella spiralis, eosinophils and resistance to, 755
Trinitrophenyl human gamma globulin-induced B-cell tolerance in murine B cells, 778
Trypsin sensitivity and variant cell line as evidence for presence of Fc receptors on mouse macrophages, 931
T-T interactions in suppressor and helper T-cell induction, analysis of membrane phenotype of precursor and amplifier cells, 793
Tumor incidence, histologic spectrum antibody response, demonstration of viral DNA and

viruses in Epstein-Barr virus-induced lymphoma in marmosets, 948
–, mammary, plasma levels of viral protein signaling presence, effect of tumor removal, 999
– producing matrix of basement membrane, 204
Tumors and bacterial parasites, macrophages as expressors of nonspecific immunity in T-cell-mediated immunity to syngeneic tumors, 275
–, malignant, subversion of host mechanisms, as site for bacterial growth, 1264
–, splenic, morphologic, cytogenetic, cell surface, and enzymatic properties derived from in tissue culture studies in Hodgkin's disease, 1484
–, syngeneic, T-cell-mediated immunity, macrophages as expressors of nonspecific immunity to unrelated tumors and bacterial parasites, 275
L-Tyrosine, L-alanine, and L-glutamic acid, copolymers in control of IgG and IgM responses on immunization, 1278
L-Tyrosine^{10}, L-glutamic acid^{60}-L-alanine^{30}-, immunosuppressive factors from lymphoid cells of primed nonresponder mice, cellular source and effect on responder and nonresponder mice, 828
–, L-glutamic acid^{60}-L-alanine^{30}-, primed nonresponder mice, immunochemical properties of immunosuppressive factors of their lymphoid cells, 839

U

Uterus, distribution of maternal immunoglobulins after implantation of embryo, 58

V

V regions, inheritance of antibody in rabbit, H-chain-specific idiotype linkage to Ig allotypes, 916
Virus, Moloney sarcoma, antibody-dependent cell-mediated cytotoxicity, differential activity of IgG and IgM with different lymphocyte subpopulations, 302